



# Industrial metal detectors



## MEDETEC

### Our history

The QSDM products from Medetec AB are from the beginning developed by the company ABB(ASEA Brown Bowery). The first generation was put to market in the early 60s and has since been developed into the products they are today. In the early 00s ABB decided to refine their business, and the metal detection unit was sold.



This resulted in the birth of Medetec AB.

### Medetec today

Since 2004 Medetec has worked as an own company with our own production of metal detectors. Focus is on industries with rough environments. We are located in Jönköping in the south of Sweden.

Since about ten years Medetec has collaborated with one of the biggest manufacturers of metal detectors in Europe. They have a big product portfolio and a focus on research and development. This has made Medetec AB to a complete supplier of metal detectors for a wide range of industries.

## Oniks technics



Industrial metal detector  
Process instrumentation  
Automation & maintenance

Our experience and our skills allow us to offer you the best solutions with the most reliable and recent measurement and detection instruments.

We distribute and work with manufacturers of measuring instruments and detectors, specialists in their technology:

- **MEDETEC**
- **Microsonic**
- **Telco sensors**
- **PR Electronics**
- **UWT**

Our continued success is the result of our working method: integrity, flexibility, availability, independence. We are available, fast and close to all our customers.

We are looking for the best solutions in instrumentation, industrial automation and metal detection for you.

With an enthusiastic team of experienced professionals,

We operate from our office in Waterloo (Belgium).

Every day, we work with the same enthusiasm to earn and keep your trust.

## MEDETEC

## Industries

### Wood and paper

It gets both expensive and time consuming with production down time that is an effect of unwanted metal contaminants in the production. Planer blades get ruined, iron bars gets stuck in the chipper, belts on conveyors gets destroyed etc. One can reduce down time on critical machines by using metal detectors in the process that also results in a short payback on the investment itself.

We have the by far widest range when it comes to metal detectors to be able to fit all types of applications.



### Bioenergy

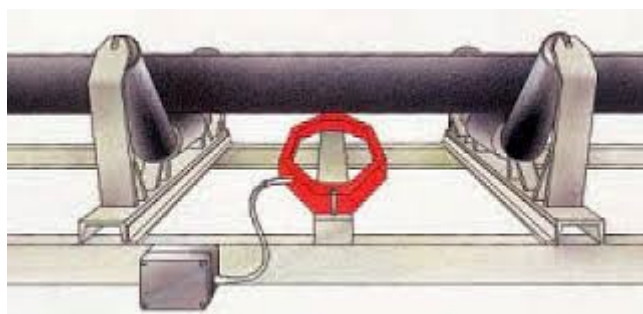
In this segment we both protect briquette and pellets presses, but also the machines that can take damage in the heating plants by bigger metal contaminants. Using a metal detector for e.g. wood chips is an essential investment that is both cost effective and will also find all types of metals, which for an example a magnet cannot.

### Mining/gravel

There are many challenges when it comes to metal detection in the ore- and stone quarrying. These are both heavy materials and the down wear is bigger, but it is also sometimes good metal materials in the product. We have solutions to separate good metals from the bad ones in this kind of industries.

### Process

The main task of metal detectors from Medetec AB is to prevent unwanted metals from getting into the process. They both protect machines from damages and breakdowns, but also guarantees the pureness of the product. Some applications require the highest sensitivity while others only need to find bigger metal object. We have the solutions for all types of applications regarding metal detection.



## METRON O5 C/D

### METRON O5 C/D

We provide the most suitable metal detector for each application - for example, for installation in conveyor belts, gutters or vibrating equipment. Closed or split metal detector in tunnel design of the Metron-C and Metron-D series is very well suited for high material beds. They provide the optimum protection for your equipment that is sensitive to metal contamination, such as a hood, grinder or mill. They reliably detect all metals, both stored and as loose parts.

- Flexible integration in existing line with Metron O5 D (divisible)
- Good sensitivity
- Many adjustable optimization features in the AMD 5.2 electronics
- Good integration into existing line with Metron O5 D (detachable)



## QSDM 104 R

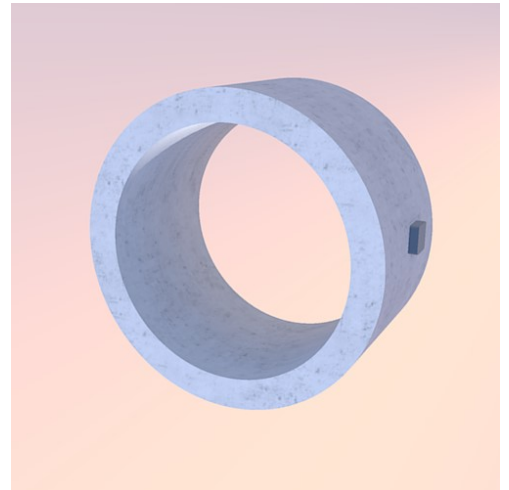
QSDM 104 R is a tunnel detector.

With a closed loop in the metal detector,

The material is wrapped in the web and detection occurs throughout the entire surface of the opening. This tunnel is used to find major metal contaminants and does not cause a stop for smaller nails, etc.

QSDM 104R is installed on a variety of pulp mills around the host. The coil is made of fiberglass, which provides high durability in tough environments, yet a weighty lightweight construction which makes it easy to install and handle.

- Robust construction
- Long service life





## QSDM 111 SR

### QSDM 111 SR

Rectangular tunnel detector with Medetec 111 electronics. High sensitivity throughout the tunnel opening, it provides reliable detection of metal contamination in the material. Robust design and long service life. With this unit, you not only get good machine protection for other devices in the process.

Smaller pieces of metal can be detected with it, which means that you can enrich the material well for the coming end product.

- Robust construction
- Long service life



## QSDM 111 S

### QSDM 111 S

Round metal detectors for checking, in particular, wood logs. This unit is available in several sizes and has two sensitivity levels for the automatic wreck function. This detector is designed to find everything from small spikes upwards. This unit is developed by ABB and is still one of the most used units in the saw mills. There are still many units out there delivered in the 80's and still in operation.

Made of fiberglas.

- Long service life
- Two sensitivity levels for automatic wrecking function
- Simple integration in existing as well as new line
- High sensitivity



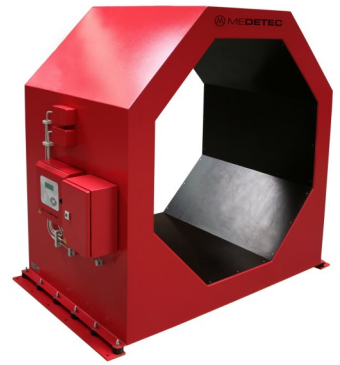
## METRON 05 CO

### Metron 05 CO

Metron CO spikers protect your sawmill equipment from unwanted metal contamination. Metron CO has an advanced yet robust electronics with a variety of inputs / outputs as well as adjustable sensitivity. The octagonal opening is one of the best possible form of conveyor beam and facilitates installation. Metron CO has robust construction in stainless steel.

Metron CO is equipped with dual sensitivity levels for various large metal pieces. This allows you to sort out even less metal contamination than those that are directly harmful to other equipment and must be automated.

- Good sensitivity
- Two sensitivity levels for automatic wrecking function
- Built-in heating elements when required in cold climate zones



## METRON 05 S

### Metron 05 S

With lower product / material heights, planetary metal detectors, so-called "underbelt" detectors, are a cost-effective alternative. MESUTRONIC provides the correct detector size for each project. The Metron-S and Metron-U device series easily integrates into vibro-channels and conveyors, as they only need small metal free zone (MFZ).



## QSDM 104 A

QSDM 104 A is a metal detector for installation under belt and gutter conveyors. The detector is easily integrated into the process. The metal detector has a unique function in the form of charging adjacent metal, which means that it is not disturbed by it, which other metal detectors may have major problems with.

This feature fits perfectly at installation sites.

The metal detector is fitted with automatic adjustment (AGC) of the correct working point.

This ensures good performance under varying ambient conditions for a long period.



## METRON O5 VT

### Metron O5 VT

Metron-VT is a smart solution for direct installation in a vibration beam. Metal detectors of the VT series are easily integrated into all types of swinging transport channels. The template for producing the detector form is always provided by the existing channel. Metal detectors of the Metron-VT series do not require any additional metal-free zone (MFZ). Due to minimal installation costs, you can easily manage your investment budget without having to accept poorer quality.

- small metal free zone is required
- Easy installation in the cut-out vibrating trough
- Robust design



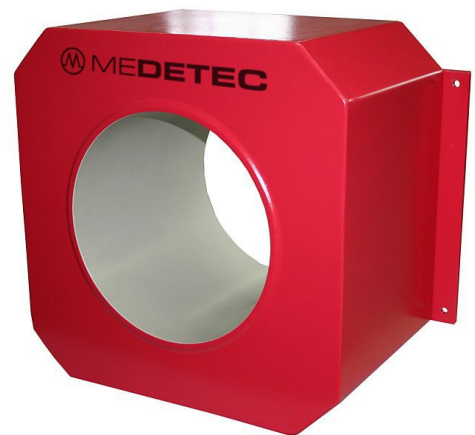
## METRON O5 CR

### Metron O5 CR

Round-metal metal detectors suitable for horizontal and vertical integration in pneumatic transport lines or pipelines. The series CR tube detectors with round opening are compact and require very little installation surface. They monitor product quality or protect valuable production equipment.

A product-adapted solution is met with a combination of correct sensing pipes and appropriate frame to ensure quick and easy installation.

- Good detection in applications where you cannot visually identify the purity of the material
- Good sensitivity
- Requires small installation area



## Quicktron 05 A

**Quicktron 05A** metal separator also detects the smallest metal contaminants. It automatically separates the polluted material automatically and reliably with a pneumatic flap without disturbing the production process. Very little of the "good" material is wasted.

Quicktron protects automated injection and moulding machines and granulators, and inspects granular materials. It also works great for separating metal from eg. pellets, chips, cereals, spices etc.

- Automatic separation of metal contaminants
- Minimal product play when separating metal
- Requires small installation area



## Profiline 04/05

### Profiline 04/05

METRON Profiline for inspection of thin layers of materials such as plastic foils, carpets, textile beds and paper. There are two versions of Profiline, single and multiple segments. Version is determined based on how wide the material bed is. The segment design provides high sensitivity, even in wide material beds. An LED indicator locates exactly where metal contamination is.



- Available in both segmented and non-segmented version depending on application
- Detects very small metal objects that can damage rollers or presses.
- Requires small installation area and can also be placed for horizontal, inline and vertical material.

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