



**MDP|MDE**  
**Premium and Economy**  
**series metal detectors**  
The secure choice  
for production lines



# Process reliability and product safety

Recently, consumers' demands and expectations have become increasingly discriminating with regard to product quality.

This growing awareness of quality is reflected by new laws and regulations affecting the products and production processes of practically every manufacturer.

Sartorius has risen to the challenge of meeting the needs of producers and users alike.

**Sartorius – the partner you can rely on for process optimization.**

Metal contamination is a significant production risk, and can damage both the profitability and reputation of a supplier.

Sartorius metal detectors and rejection systems reliably search out metal particles and sort out contaminated products.

They put the key to ISO 9000/ISO22000 as well as HACCP and IFS in your hands – and enable you to assure your customers maximum product quality thanks to optimal detection sensitivity that meets all applicable legal requirements.

In addition, they reduce your machine downtime and cut your production losses.

**Let us help you increase the quality of your products!**



# We make your production line safer

Sartorius metal detectors consist of a full range of mechanical and electronic components that can be combined to meet your individual expectations and needs.

We offer various mechanical product solutions with the following codes:

"C" stands for compact range, which is the all-in-one system – search coil and electronics with integrated power supply all in a single housing.  
 "P" is for pipe range that is based on a round search coil for easy integration into pipelines.  
 "H" stands for "head only," which means a separate search coil to be connected to a remote terminal.  
 "S" is for "small" range, which consists of exceptionally slim search coils for installation in extremely tight spaces or combined with in checkweighers.

The **HD** type is a special, dust-tight, washdown-resistant version that will stand up to the worst environmental conditions.

Our wide range of products offers solutions for practically all installation conditions.

Moreover, we provide two different versions of electronic units to meet your specific needs:

MDE with a fixed frequency – the attractively priced solution in a rugged design for inspection of most products.

MDP – the premium, multi-frequency system that operates in three selectable ranges from 60 kHz to 1 MHz with special filter technology. Even in critical production processes or in products with a high degree of electrical conductivity, metal contaminants are reliably detected.



- Various drive concepts:
- Three-phase AC motor
  - Three-phase AC motor with frequency converter
  - Thyristor-controlled DC motor
- Conveying options:
- Plastic chains
  - Belt
  - Round belts



High pressure resistant, stainless steel enclosure for stringent hygiene requirements



Reliable ejection of metal-contaminated products



Open, easy-to-clean design

## Developed and designed with our customers in mind

DSP computing power and digital filters  
for the best possible noise suppression

The latest technology ensures maximum  
sensitivity toward all kinds of metal for  
different products

Automatic self-monitoring and quality  
assurance routines ensure uninterrupted  
functional reliability

Stainless steel housing (AISI 304/BS 304) for  
maximum hygiene requirements according  
to HACCP

Tight-space installation capacity

Search coil, electronics and complete systems  
... choose the component options for optimal  
detection sensitivity in your individual  
application



# User-friendly operation

Operator prompting in three languages and an optional fourth language, so anyone can operate the unit.

Online help via display for any function (accessible by the "?" key) – to make an annoying missing manual situation a thing of the past

Joker key (programmable) for extra-fast access to a frequently used function – which makes operation of the unit even quicker and easier

Learn key, for quick "learning" of the product effect, guarantees automatic accommodation of production-specific changes

Changeable passwords prevent unauthorized tampering with the unit

Context-sensitive, menu-driven dialogues provide clear, easy-to-understand user guidance

The large, backlit display is easy to read

## Comprehensive documentation

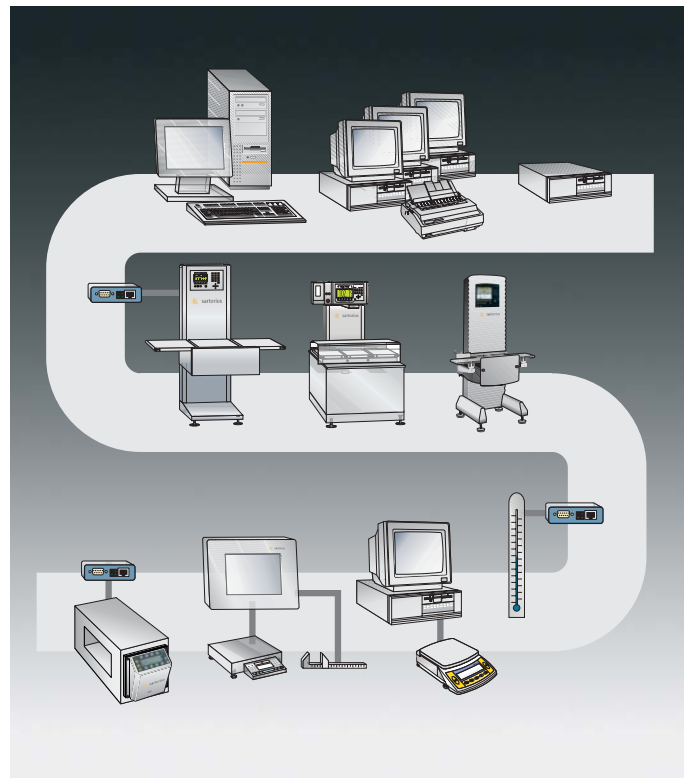
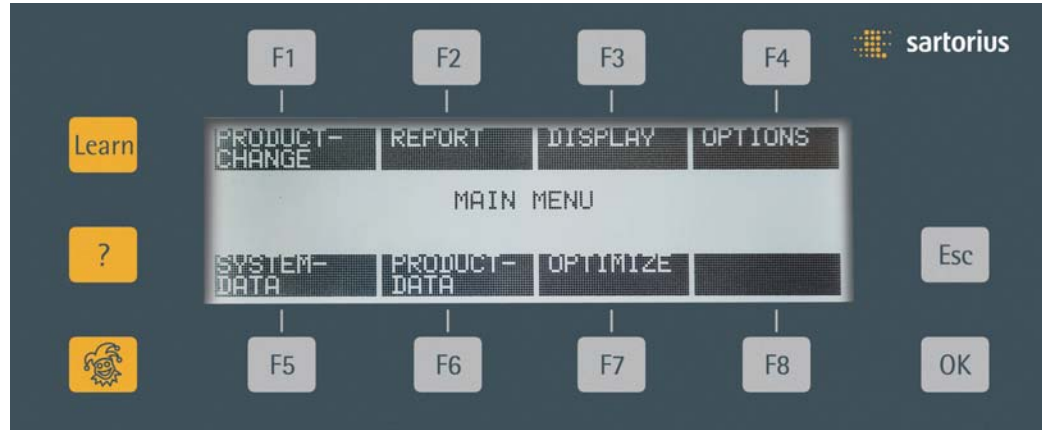
Metal-detected and error messages are logged immediately following their occurrence

Any change affecting the unit automatically produces a printout of a new report

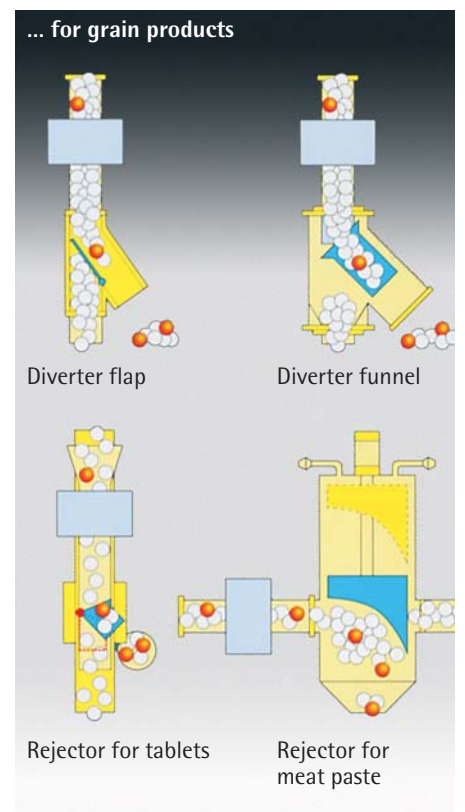
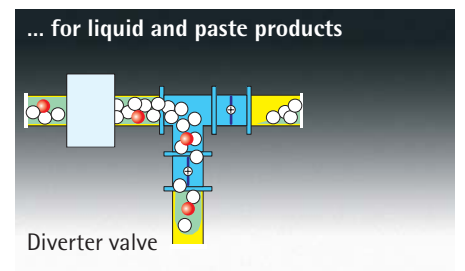
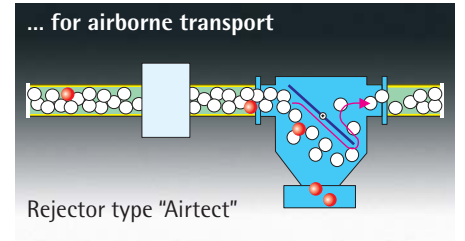
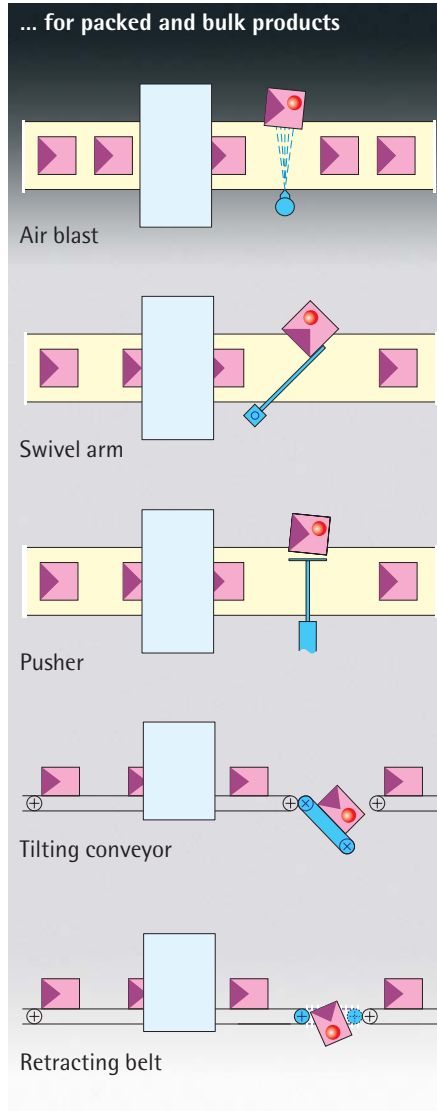
Different reports document the plant status and all in-process events

Various optional interfaces are available

Interfacing with Sartorius ProControl for Windows® software allows monitoring in accordance with HACCP concepts



# System components ... designed precisely for your production lines



Sartorius Aachen GmbH & Co KG  
Am Gut Wolf 11  
52070 Aachen, Germany  
Phone +49.241.1827.0  
Fax +49.241.1827.210  
sales.ac@sartorius.com  
www.sartorius.com

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