

Industrial Metal Detectors

for the protection of consumers and production equipment



All Minebea Intec products and systems feature German Quality combined with almost 70 years of experience in designing, building and servicing metal detectors

We make daily life safer

Minebea Intec, formerly known as Sartorius Intec, provides products, solutions and services to the industry for increasing the reliability, safety and efficiency of production and packaging lines. This we give evidence through our promise to our customers and consumers: 'We make daily life safer.'

Our core market position, that of a leading global product and solution provider together with our aim to set strong standards in all areas of our business, are both reflected in our company motto: 'The true measure'.

We have almost 70 years experience in supporting the industry to ensure that manufactured goods have the right quality and do not contain any foreign bodies. Our ability to do this is based on the 'German Quality' of our products and services combined with our continuous investment in developing leading technology. As a result, tens of thousands of customers put their trust in our company, having allowed us to supply them with millions of products and solutions during our long history.

Via our world-wide presence, we stand beside our customers around the globe and through the whole life cycle of our products and solutions; from assistance with selecting the right equipment, design-in support, installation & calibration and maintenance & repair services, up to realising equipment upgrades and refurbishments and providing user trainings.



For more information on Minebea Intec, our products and services or for locating our office and partners in your country, please visit www.minebea-intec.com.



- Minebea Intec Sales - Service
- Minebea Intec Production - Sales - Service
- Distribution Partners

The Minebea Group

The Minebea Group is a global precision electromechanical components manufacturer, providing products for various industries. Minebea was founded in 1951 in Japan and today has more than 70,000 employees as well as production and sales & service facilities in 20 countries around the globe. For many products, The Minebea Group is No. 1 in terms of global market share.

Minebea Intec metal detectors – a secure investment

Minebea Intec develops and manufactures industrial metal detectors and metal detection systems for the inspection of food and other products. The systems are capable of detecting both ferrous and non-ferrous metals and reliably separating any products contaminated with these metals from the production or packaging line.

All Minebea Intec products and systems feature German Quality combined with almost 70 years of experience in designing, building and servicing metal detectors. This guarantees you reliable operation over a long time, making the investment in a Minebea Intec solution a secure one.

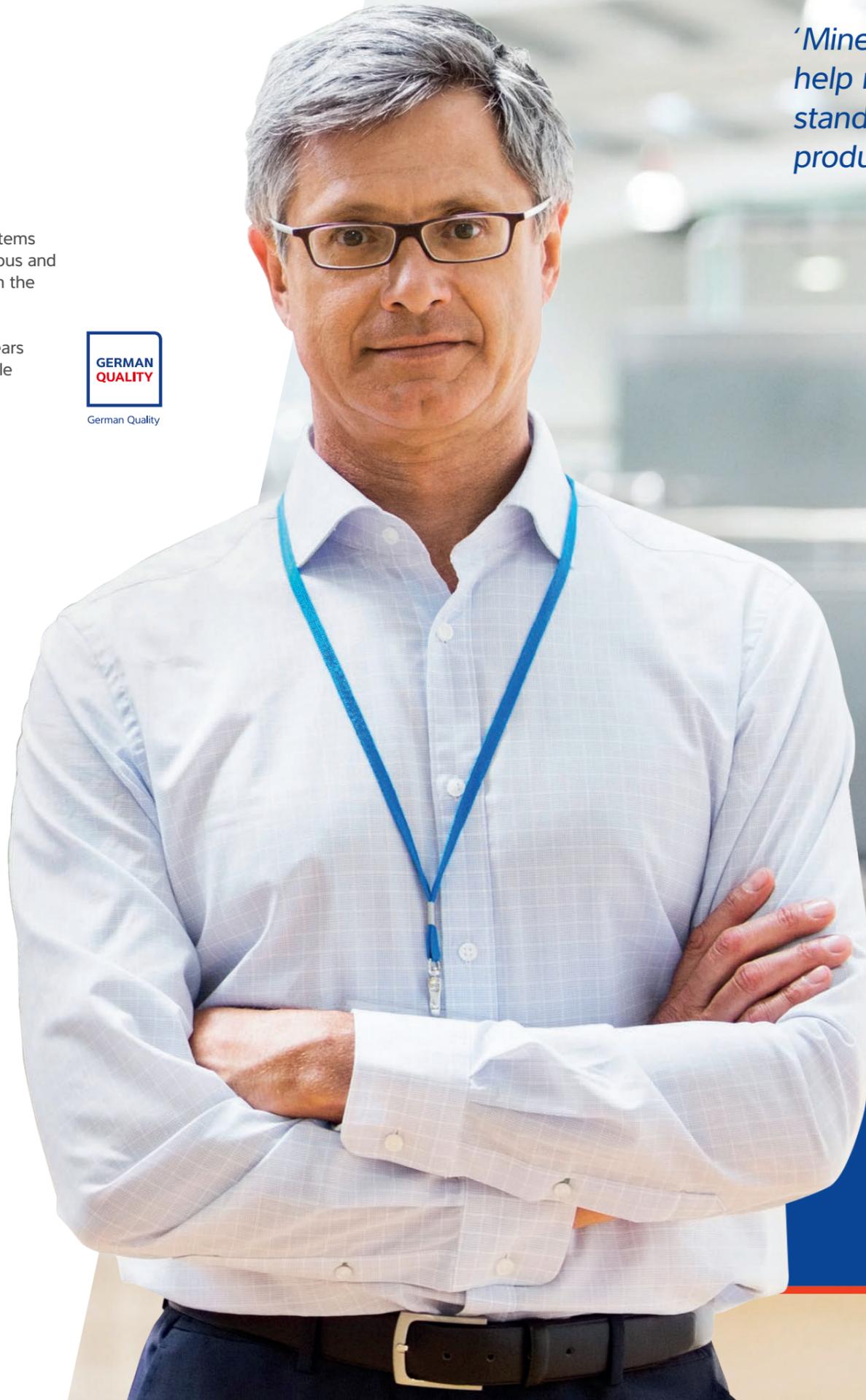


We offer two types of industrial metal detectors, one for protecting production equipment and production staff and the other for protecting consumers.

The protection of production equipment and staff is typically an application for the chemical, plastics, rubber, recycling and timber industry. In the chemical industry for instance, metal detectors are used for the inspection of recycled plastics with the objective of avoiding damage to expensive moulds.

For the protection of consumers, many applications can be found in the food industry. Here their main purpose is to ensure that products leaving the factory do not contain any metal contaminations. Through this Minebea Intec metal detectors support compliance with industry standards such as HACCP, IFS and BRC, protect brand reputation and avoid costly product recalls.

'Minebea Intec metal detectors help me comply with industry standards and avoid costly product recalls.'



To learn more about metal detection in general, download our White Paper here!



www.metal-detection.info/en

Vistus® metal detectors for optimum consumer protection

Vistus® metal detectors are capable of detecting both ferrous and non-ferrous metals and are specifically designed for the food industry. They are available with a rectangular opening for use on conveyor belts and with a round opening for use on pipes.

All Vistus® detectors feature:

- Multi-frequency technology offering premium detection performance
- Fast and easy switching between product batches via extensive product memory
- Via the automatic learn-function, products can be set up or adjusted fast and error-free by line operators without requiring special training or knowledge and without the involvement of an engineer
- Access protection via user individual passwords or finger print authentication avoiding unauthorized system changes
- A wide variety of available interfaces allows an easy integration into data networks



Vistus® metal detection conveyer

Vistus® metal detectors with rectangular openings for use on conveyors

- Available standard coil sizes: 75 x 30 mm up to 275 x 60 mm (w×h). Other sizes are available on request
- Extremely compact: control unit fully integrated in detection coil
- Standard IP65 protection class, IP69 optionally available for enabling high pressure water cleaning



Vistus® metal detection systems

Vistus® metal detectors can be supplied, mounted on a belt or chain conveyor, allowing an easy and fast integration in your processing or packaging line. Our systems feature:

- Sturdy and torsion free construction made of 1.4301/AISI 304 stainless steel
- High quality drives: maintenance free three-phase motor with worm gear or three phase drum motor
- Maximum detection performance through optimum vibration control and metal free zone
- Vistus® metal detection systems can optionally be equipped with the required sensors and devices for full compliance with industry standards such as IFS, BRC and M&S. These options include among others, protective covers, reject monitoring, bin full monitoring, air pressure monitoring and lockable rejection bins



Vistus® metal detection conveyer

Vistus® freefall metal detectors

The freefall metal detection system Vistus® ensures the reliable inspection and removal of metallic foreign bodies from any kind of food products in powder or granule form that is transported with the use of gravity through a pipe, e.g. milk powder, wheat, nuts or cornflakes. Vistus® freefall metal detectors feature:

- Minimum installation height for easy integration into any application
- Cost effective control of up to four search coils via one terminal
- True In-Process Validation. This functionality guarantees correct performance testing



Vistus® freefall metal detection system



Test piece opening



Test piece stopper

True In-Process Validation

True In-Process Validation guarantees correct performance testing during running operation. It allows a test piece to be dropped through the centre of the metal detector, the area of any detector with the lowest sensitivity. Any other position than the centre would produce false validation results.

To ensure that the test piece is removed from the material flow if it is not detected, a stopper is installed beneath the separator.



To learn more about Vistus® freefall metal detection systems, scan the QR code and watch the video

www.minebea-intec.com/en/videos/vistus-freefall

Pipeline configuration system

Vistus® freefall metal detector systems with round openings for use on pipes can be configured to suit your individual requirements by choosing from the following standard components: operator terminal, search coil, pipe, separator and True In-Process Validation.



Operator terminal
For efficient control of up to 4 search coils. Equipped with colour touch screen display.

Search coils



Vistus® R
For maximum detection sensitivity combined with a compact design.



Vistus® RMFZ search coil
Features reduced metal-free zone, allowing installation in the immediate vicinity of metal structures.

Pipes



PP pipe
Made of heavy-duty polypropylene; it is the universal solution for products that are not susceptible to electrical discharge, such as coffee or spices.



ESD pipe
Continuously neutralises static electricity thus offering maximum reliability when inspecting dusty products. Fully meets EU food safety standards 10/2011 and 1935/2004.



Ceramic pipe
Extreme wear-proof and heat-resistant. Ideal for highly abrasive products and high temperatures.

Separators



ST separator
Suitable for a wide range of applications featuring minimum product give-away when removing contaminants from the product flow.



FL separator
Features minimum installation height making it ideal for applying it on a Vistus® RMFZ search coil with reduced-metal-free-zone.



EC separator
Featuring hygienic design allowing easy inspection and fast cleaning through tool-free (dis-)assembly.



SW separator
The solution for very high product throughput.



Vistus® freefall metal detection system

Secus[®] metal detectors for protecting production equipment and staff

Minebea Intec offers a full portfolio of metal detectors for the protection of expensive production equipment and production staff in various industries, including: chemical, plastics, recycling, rubber, wood, power plants, mining, tobacco and clay.

Secus[®] features:

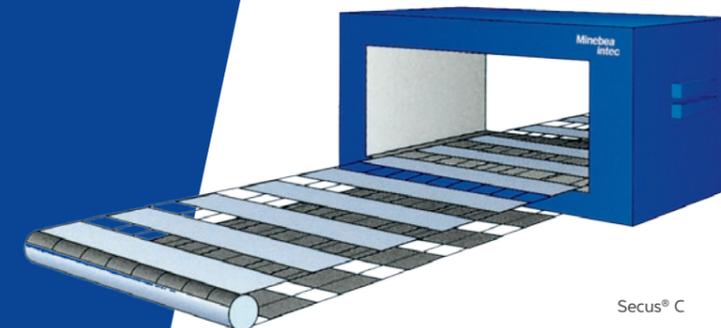
- Robust design combined with optimum detection sensitivity
- Extremely easy operation resulting in optimum user acceptance
- Available as standard with aperture dimensions of up to 2200 x 1200 mm (wxh). Larger sizes available upon request
- Protection class IP55, IP66 optional



Different coil designs allow for a perfect integration into your production process

Secus[®] C

Standard coil for installation on conveyors



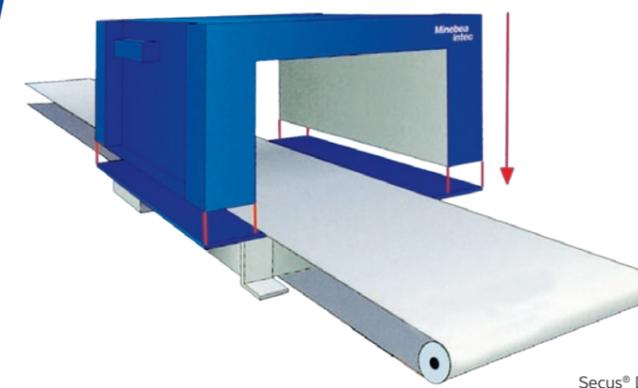
Secus[®] U

For installation beneath the conveyor



Secus[®] D

Splittable coil, for convenient installation on existing conveyors



Configuration options & complementary products

Rejector and separator systems

As part of our metal detection solutions we offer a wide range of high-speed rejector systems for guaranteeing a reliable and effective removal from the line in case of a detected contamination. The rejector systems include the following possibilities for conveyor applications: pusher, blower, swivel arm, flap/trap door, telescopic retract conveyor and multilane rejection system. For pipe applications you find an overview of available separators on page 10.

Test pieces

Most quality management systems require a regular testing of the detection performance of your metal detection system.

We can provide you with a comprehensive range of certified test pieces that ensure that you collect accurate and consistent validation data. The test pieces are available in a variety of materials and sizes for use in any metal detection application. All Minebea Intec test pieces are of course made of FDA approved materials.



SPC@Enterprise

The statistical process control software SPC@Enterprise helps you secure product quality, food safety and productivity.

The proven software offers configurable interfaces for recording data from a wide variety of machines, equipment and sensors in the processing or packaging line. It transforms this data into valuable information via powerful and comprehensive reporting functions, making it possible to react instantly if and when required.

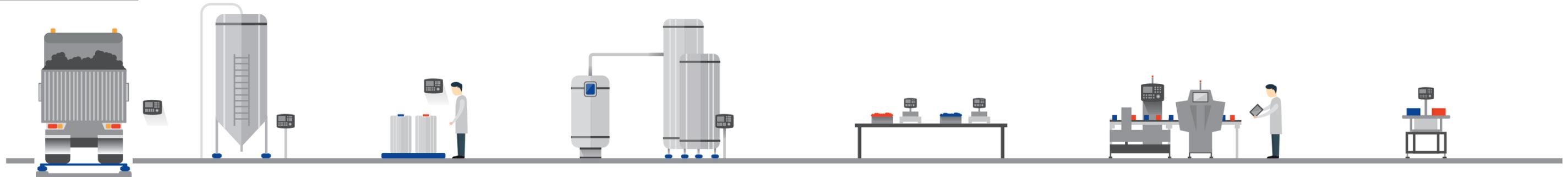


Customer individual solutions

Today's wide variety of different food products are being offered in an even larger variety of packagings, each having individual requirements when it comes to product handling and contamination detection.

Although our standard systems offer extreme flexibility, in some cases bespoke solutions or in depth consultancy are required. Our in-house Engineering Support team offers both. They can also provide you with design-in support for integrating our machines or solutions into your production or packaging line. Specifically for foreign body detection applications they can run tests with your products, advising you of achievable detection sensitivities.

Our product portfolio



<p>Bulk material receipt & storage</p> <p>Goods in</p> <p>Piece goods receipt</p>	<p>Automated Production</p>	<p>Manual Production</p>	<p>Packaging</p>	<p>Goods out</p>
<p>Accurate control of incoming and stored materials</p>	<p>Achieving total process control</p>	<p>Ergonomic solutions ensuring accuracy and traceability</p>	<p>Ensuring product quality and food safety</p>	<p>Guaranteeing final product quality</p>
<div data-bbox="133 997 489 1186"> <p>Truck Scale Components and Solutions</p> </div> <div data-bbox="593 976 905 1270"> <p>Silo Weighing Solutions</p> </div> <div data-bbox="133 1333 371 1606"> <p>Bulk Material Metal Detection Systems</p> </div> <div data-bbox="593 1459 905 1606"> <p>Floor Scales</p> </div> <p data-bbox="103 1764 905 1995"><i>We provide products, solutions and services to the industry for increasing the reliability, safety and efficiency of production and packaging lines. Our portfolio covers applications from goods-in to goods-out, including automated as well as manual processes and filling and packaging.</i></p>	<div data-bbox="1098 1018 1305 1155"> <p>Batching Solutions</p> </div> <div data-bbox="1113 1291 1335 1449"> <p>Process Vessel Weighing (standard/digital solutions)</p> </div> <div data-bbox="1083 1470 1380 1585"> <p>Process Vessel Weighing (hygienic solutions)</p> </div>	<div data-bbox="1647 997 1825 1249"> <p>Portioning & Checkweighing</p> </div> <div data-bbox="1647 1428 1840 1606"> <p>Formulation & Manual Recipe Weighing</p> </div>	<div data-bbox="2062 966 2329 1144"> <p>Metal Detection</p> </div> <div data-bbox="2136 1197 2255 1396"> <p>Checkweighing</p> </div> <div data-bbox="2136 1459 2270 1627"> <p>X-ray Inspection</p> </div> <div data-bbox="2092 1690 2300 1816"> <p>Filling Solutions</p> </div> <div data-bbox="2077 1879 2344 2005"> <p>Statistical Process Control</p> </div>	<div data-bbox="2507 1039 2834 1186"> <p>Floor Scales</p> </div> <div data-bbox="2507 1312 2804 1617"> <p>High Capacity Checkweighing</p> </div>

Our services

Via our world-wide presence, we stand beside our customers around the globe and through the whole life cycle of our products and solutions: from assistance for selecting the right equipment up to realising upgrades and refurbishments and providing user trainings.

Maintenance and repair – ensuring equipment availability and performance

- Equipment calibration or verification to legal metrology and measurement standards
- Preventative maintenance safeguarding continued availability and performance
- Repair services, including emergency service contracts for a guaranteed response time
- Remote services



Engineering Support – ensuring optimal solutions

- Consultancy assistance for selecting optimal products or solutions in terms of required performance, accuracy and cost
- Design-in support for integrating our products and solutions into your equipment, installation or production line
- Customisation: products or solutions designed to suit your individual needs



Upgrades – prolonging equipment life time and boosting performance

- Hardware and software upgrades
- Equipment refurbishment

Training – enhancing staff capabilities

- User trainings covering daily operation and/or repair
- Seminars providing knowledge on regulations and technologies

engineering support
by Minebea Intec



Start-up – ensuring equipment performance and on time production commencement

- Mechanical and/or electrical installation, commissioning, set-up and user instruction
- Equipment calibration or verification to legal metrology standards
- Equipment qualification (IQ/OQ)

academy
by Minebea Intec





We make daily life safer

Published by
Sartorius Mechatronics C&D GmbH & Co. KG | Am Gut Wolf 11 | 52070 Aachen, Germany
Phone +49.241.1827.0 | Fax +49.241.1827.210 | Email info@minebea-intec.com



www.minebea-intec.com



Minebea
intec
The true measure