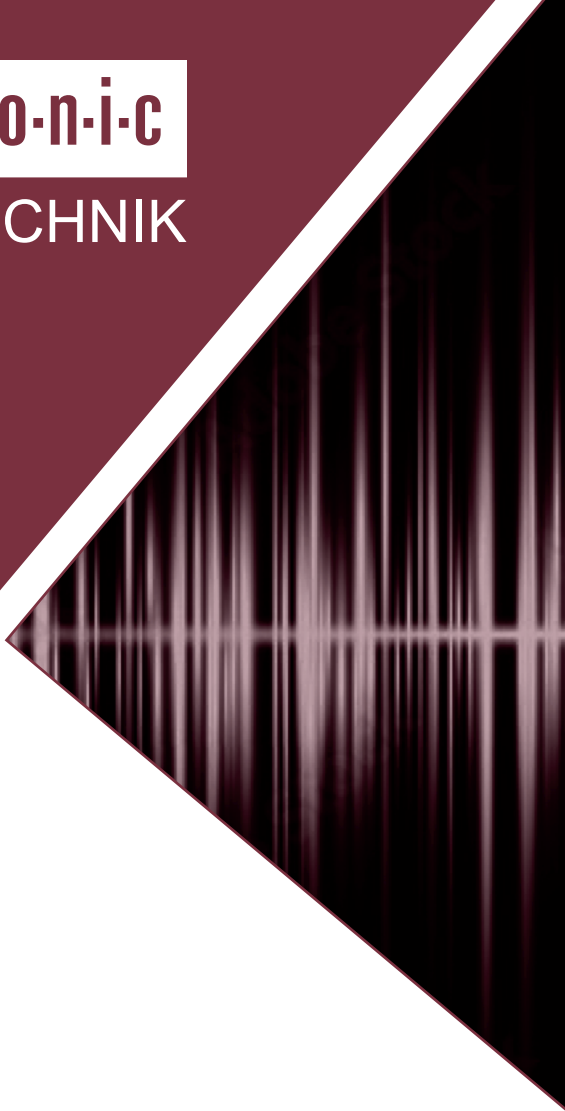


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ANLAGENTECHNIK



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INSPECTION

Metal detection
Optical inspection
Checkweigher
Software

ABOUT US

Pulsotronic-Anlagentechnik GmbH is a pioneer for metal detection in the plastics and recycling industry. Further innovative products have been successfully introduced and established in the food industry and other industries. Since 2010, we have also been offering complete automation solutions in the product packaging sector. A team of engineers is permanently working on improvements and customer-specific solutions. All products and special systems are developed and manufactured entirely at Niederdorf. This enables us to test new processes and principles in the shortest possible time and to put them into practice. Close cooperation with regional research institutes ensures that our products are always at the latest technical level.

Quality assurance and environmental protection are central components of our management. Pulsotronic-Anlagentechnik GmbH follows the „ZVEI Code of Conduct“ on social responsibility in all matters.

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Can't find the product you are looking for in the brochure? Do you need a customised solution?
Do you have any questions or suggestions?

Our sales engineers will be pleased to advise you on site.

Comprehensive technical knowledge and excellent on-site service are among the basic requirements for a successful business with machines and systems.

We are happy to take on your tasks – true to the motto:

» Pulsotronic – complex solution from one source «

METAL DETECTION – CONTROLS

We offer a wide range of evaluation electronics, which are specially adapted to our sensors. This ensures maximum sensitivity and reliability. All electronics are very well equipped and can be extended if required.



M-PULSE2PRO / M-PULSE3

- 4-quadrant technology / multi-frequency technology
- simultaneous multi-frequency technology (M-Pulse3)
- Touch screen / graphic display 7" / display can be remote-controlled via RS485
- high-precision product effect suppression
- 10,000 product memory spaces
- Ethernet / USB / remote diagnostics / RFID
- comprehensive peripheral support



M-PULSE2

- 4-quadrant technology / multi-frequency technology
- Touchscreen / graphic display 5.7" / display removable via RS485
- high-precision product effect suppression
- 1,000 product memory spaces
- Ethernet / USB / remote diagnostics / RFID
- comprehensive peripheral support



DIGITAL2

- primarily used for bulk material detectors
- high-precision product effect suppression
- ten product memory spaces
- easy operation by 3.5" TFT display



MESEP

- use for bulk material detectors
- easy operation

COMPLETE DEVICES BD + HQ

The HQ conveyor belt systems, combined with our high-performance BD-HD metal detectors, result in a highly sensitive and reliable system for the detection and ejection of metal. All systems are custom-made. The construction as well as the complete production are carried out under one roof. This and our many years of experience enable us to find the right and optimal solution for every task. Our systems are used in all areas of industry – not only in the food industry. They are primarily used for testing individual items or bulk goods. The robust design, made entirely of stainless steel, guarantees a long service life and meets the strictest hygienic requirements.



SPECIAL FEATURES

- ☑ speed-controlled powerful drive
- ☑ high-precision product effect suppression
- ☑ different separating devices available
- ☑ belt available in different materials and designs
- ☑ special designs such as curved belts or ascending belts etc.
- ☑ height adjustable and optionally mobile
- ☑ Hygienic design
- ☑ customised design
- ☑ Equipment according to international norms & standards (M&S, Tesco ...)

DIFFERENT TYPES OF BELTS



Polyurethane belt (PU)

- suitable for high belt speeds
- small deflection diameter
- belt widths from 30 mm
- self-centring
- exchangeable without tools



Link chain belt (GK)

open / closed

- suitable for a wide range of packed and unpacked products
- easy to maintain and robust
- flights or rubbertop available as an option



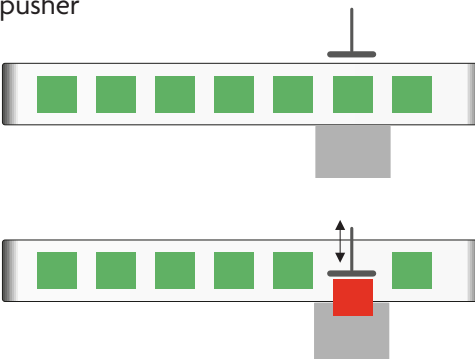
Thermoplastic belt (TP)

- suitable for unpacked products, such as raw, fresh meat, carcasses or fish
- High hygienic standard
- flights and / or sidewalls available as an option
- exchangeable without tools

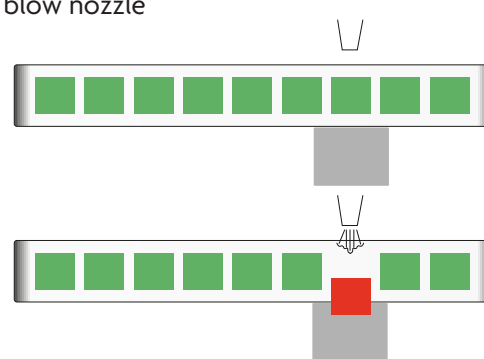
DIFFERENT TYPES OF EJECTION SYSTEMS

Suitable for products arranged in a single row:

pusher

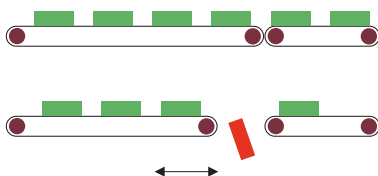


blow nozzle

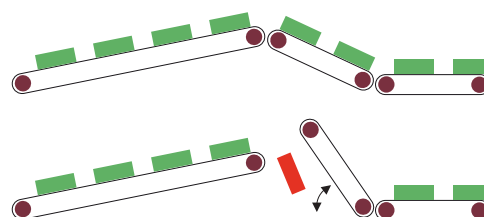


Suitable for other products:

retracting belt



ejection chute



TUNNEL DETECTORS



BD SERIES

M-Pulse2 | M-Pulse2pro | M-Pulse3 | IP65 | IP68 | IP69k

- highest detection performance and reliability
- stainless steel housing with long-term stable and waterproof full encapsulation – hygienic design (IP65 | IP68 | IP69k)
- various sensor sizes available
- calibration and maintenance-free
- generally in multi-frequency technology
- optional simultaneous multi-frequency technology available (M-Pulse3)
- meets all requirements according to HACCP / IFS

TU SERIES

Digital2 | IP54 | IP65

- dividable stainless steel housing
- easy integration into existing conveyor systems
- various detector sizes available, adapted to the product



FLAT SENSORS

FOR CONVEYOR BELTS, CHUTES AND FOILS

FS2 / FS3 SERIES

FS HMI | IP65 | Ethernet

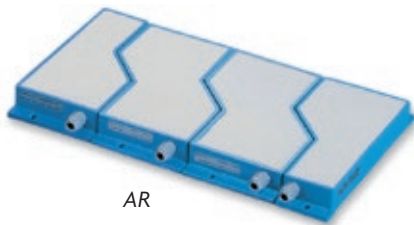
- especially for sorting tasks in the recycling industry
- spatially resolved detection (from 12.5 to 120 mm per channel)
- integrated control of the discharge elements (blowing nozzles or pushers) – only with FS2
- Ethernet connections for output of measured values – FS3 only
- Control via optional operating unit, PLC or PC possible
- Versions with different resolutions and widths
- Standard detection widths up to 2,000 mm
(alignable sensors for larger total widths are possible on request)
- No metal-free zones necessary



FS3

SP / AR SERIES

MESEP | IP54



AR

- Easy integration into conveyor belts, as it can be installed flush with the surface
- long-term stable full encapsulation in robust metal housing
- Belt stop or reverse operation available with reversing contactor circuit
- external control electronics with RESET / START-STOP button
- standard detection widths up to 1,200 mm
- no metal-free zones necessary

FL SERIES

Digital2 | M-Pulse2 | IP54 | IP65

- Flat pickup coil for mounting under a conveyor belt or a chute
- higher sensitivity than FS/SP/AR series
- different sensor widths available, adapted to the product
- stainless steel housing with long-term stable and waterproof encapsulation



SEPARATORS

FOR BULK MATERIAL



KR SERIES

Digital2 | M-Pulse2 | IP65

- suitable for plastic granulates and foodstuffs
- open, easily accessible frame made of stainless steel, also available in compact design
- device-specific material throughput of up to 100,000 l/h
- Optionally available with a particularly wear-resistant separating filter
- parts in contact with the product made of stainless steel / POM

VA SERIES

MESEP | Digital2 | M-Pulse2 | HT 200 °C | IP50

- suitable for plastic granulates (optionally also for food)
- very robust and compact stainless steel housing
- device-specific material throughput of up to 25,000 l/h
- stainless steel separating filter
- optionally available with wear-resistant product pipe
- High temperature application optional



Y SERIES

Digital2 | HT 200 °C | IP50

- suitable for plastic granulates
- for slow moving columns of material and free-fall
- extremely effective and fast-reacting pneumatic discharge system
- device-specific material throughput up to 5,400 l/h
- high-temperature application optional
- extremely low mounting height

SEPARATORS

FOR BULK MATERIAL



COMPACT SERIES

Digital2 | IP50 | HT 200°C

- suitable for plastic granulates
- only for slow moving columns of material
- maintenance-free separation system
- ultra-compact design
- device-specific material throughput of up to 5,400 l/h
- compressed air ejection
- High-temperature application optional

SE SERIES

MESEP | Digital2 | IP50

- suitable for plastic granulates
- extremely sturdy and compact aluminium housing
- Device-specific material throughput of up to 14,000 l/h
- very fast-reacting separating filter made of stainless steel



EXTRAKTOR SERIES

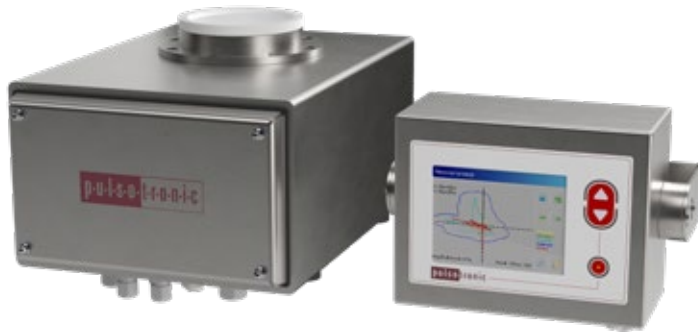
MESEP | Digital2 | M-Pulse2 | IP54

- suitable for plastic granulates
- unique ejection system for integration into suction and by means of a hose connection – the pipe system remains closed when metal contaminants are ejected!
- Adjustment-free separation independent of material speed
- device-specific material throughput of up to 3,300 l/h
- optionally in wear-resistant design
- two large inspection doors



SEPARATORS

FOR BULK MATERIALS OR SIMILAR



KRS SERIES

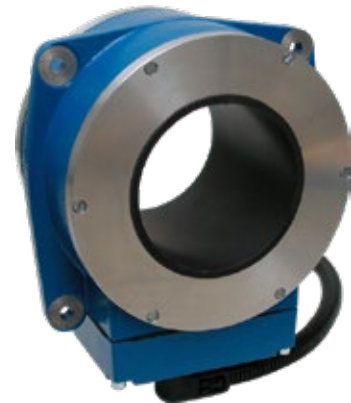
M-Pulse2 | IP65

- compact design
- sensitivity for ferrous and non-ferrous metals from 0.6 mm
- calibration-free
- different sizes and types available
- remote powerful electronics with product effect suppression
- designed for installation in flow wrapping machines

RG SERIES

Digital2 | M-Pulse2 | IP54

- compact design: diameter 25 – 100 mm
- sensitivity for ferrous and non-ferrous metals from 0.2 mm
- calibration-free
- different sizes and types available
- remote powerful electronics with product effect suppression



KJR SERIES

MESEP | IP54

- wide delivery range from 35 mm to 300 mm ring diameter
- sensitivity for ferrous and non-ferrous metals from 0.5 mm
- plastic or metal housing
- integrierte Auswerteelektronik mit Signalausgang

PIPE DETECTORS



INLINE SERIES

M-Pulse2 | M-Pulse2pro | IP69k

- for liquid products or raw materials
- easy integration into pipelines
- with flexible or rigid, high-pressure resistant pipe connection adapters
- various separating valves available (piston valve / elbow valve)
- with CIP function (Clean-In-Process)

INFLEX SERIES

M-Pulse2 | IP69k

- for highly viscous products or raw materials
- simple integration adapters for the most common sausage filler types (e.g. Vemag, Handtmann, Frey, Risco, Rex)
- optional ejector / linking gear
- modular construction system
- height adjustment via maintenance-free spindle drive
- extremely robust – built for rough environments
- high stability due to lowered centre of gravity
- uncomplicated and tool-free disassembly for cleaning work



CHECKWEIGHER



CW-M SERIES

IP54

- up to 250 weighing operations per minute
- minimum calibration value 0.1 g
- entire machine in stainless steel housing with infeed, weighing, and outfeed belts
- maintenance-free servo drives
- certified (MID)
- WIPOTEC EMFR Weigh Cells
- simple, menu-directed operation on 10.4" colour TFT touch-screen
- memory for 100 product parameters, optionally expandable
- easy, tool-free exchange of belts and conveyors
- extensive statistical functions / histograms for production documentation

Also available as:

CW-M-VA SERIES

- IP65
- full stainless steel design for maximum hygiene



CW-M-SL SERIES

- IP54
- for products up to 60 kg individual weight



CW-M-WD SERIES

- protection class IP69K for all components
- robust, hygienic stainless steel housing
- gross weighing capacity up to 30 kg (CW-M-WD-SL)



SPECIAL SOLUTIONS

COMBICHECKER **CCW-M** SERIES

M-Pulse2pro | IP54 | IP65

- customised combination of metal detector and checkweigher



OPTICAL INSPECTION **OI2PRO**

IP54

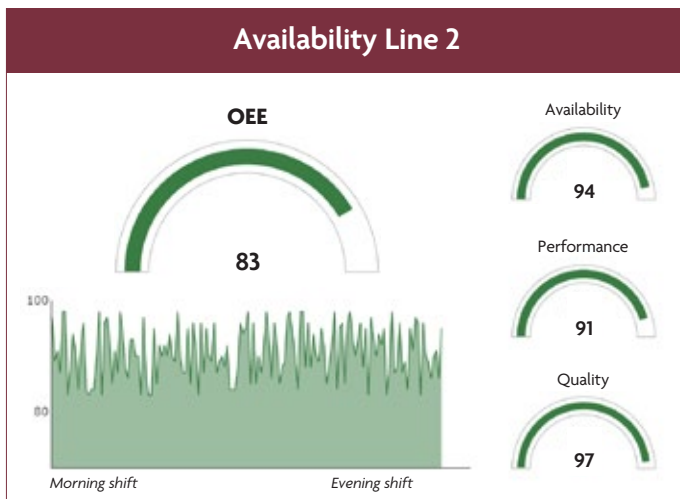
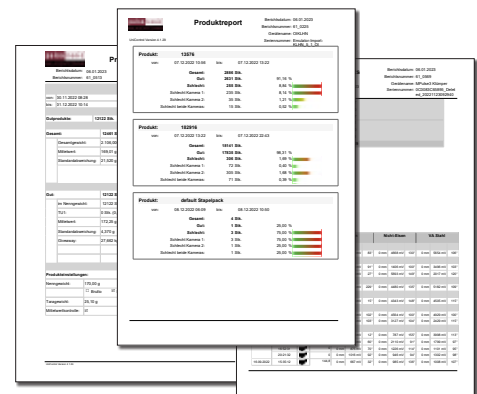
- camera inspection top AND / OR bottom side
- OCV (read data content) top AND / OR bottom side
- up to 200 products / min
- Presence control with luminescence scanner
- Single or double track system possible
- Control features (presence, position, plausibility, readability of samples, BBD, barcode, QR codes, batch markings, ...)

SOFTWARE

CENTRAL NETWORKING SOLUTION UNICONTROL

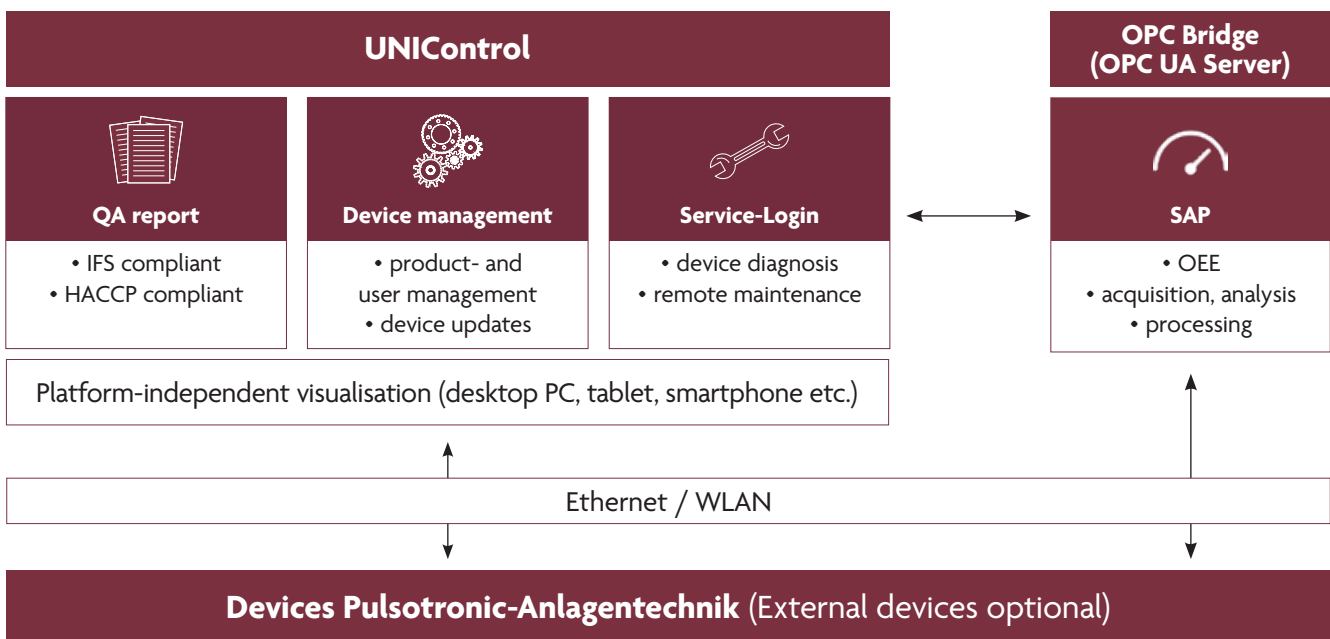
M-Pulse2 | M-Pulse2pro | M-Pulse3 | CW-M | CCW-M | SQL-DB | OPCUA

- central data acquisition and evaluation
- QA-report
 - IFS and HACCP compliant
- product and user management for equipment
- device diagnosis / remote maintenance
- data storage in SQL server database
- Web-based user frontend
- suitable for Windows, IOS, Android or Linux (user frontend)



OPC-BRIDGE

- device integration for production control systems and SAP systems
 - product / batch switching
 - device control start / stop, product, batch
- availability analysis for MES systems
 - device status
 - error codes
 - statistics
- standardised interface OPC-UA (Open Platform Communications Unified Architecture)



CONTACT

ADVICE & DESIGN

- expert advice – by telephone and on site
- design and creation of customer drawings and 3D models
- loan units and devices for demonstration
- product tests

SALES:

Germany / International

phone: +49 37296 9383-520

e-mail: sales@pulsotronic-anlagentechnik.de

Inquiries and information are forwarded from our head office to our internal sales and service partners. Please also see our website for further details.

SERVICE

- free telephone hotline
- on-site service
- VPN connection
- Software updates
- annual inspection service according to HACCP / IFS
- large spare part inventory

Please visit our homepage for information on the service partner responsible for your region.



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