# METAL SHARK® PH

Metal detection for tablets and capsules

## Features

- Maximum search performance with high reliability due to 4-quadrant technology

- Simple setup with TeachAssistant

- Memory for up to 250 products

- Easy to use with intuitive and multilingual menus

- 4-level password system, automatic log out after time lapse

- Documentation of all events and metal messages

- Optional: Data transfer to USB interface or connection to the company network via SHARKNET® software

- Cyclical function monitoring with Performance Validation System (PVS)

## Advantages

- Reliably detects metal contaminants in tablets and capsules

- IQ, OQ, PQ qualification certificates are delivered directly, SQ certificate available

- Rejection with pendulum bell ensures that products are not damaged or jammed

- Mobile and height adjustable, toolless disassembly for cleaning

- Intuitive control, automatic calibration and TeachAssistant

## Application

- Monitoring of tablets and capsules for metallic impurities in the pharmaceutical or nutraceutical industry

## Scope of Delivery

- PH detection unit incl. infeed guide and rejector
- METAL SHARK® control unit
- Mobile frame with castors, polished stainless steel
- IQ/OQ/PQ quality certificates (SQ option on request)

# METAL SHARK® PH
## Metal detection for tablets and capsules

## Function

Typically, the METAL SHARK® PH is used at the outlet of tablet presses. It provides a very high degree of sensitivity for detecting magnetic and non-magnetic metals.

As tablets drop through the metal detector, the downstream ejection flap removes tablets with the smallest metal contaminants from the product flow. This high-quality device is maintenance-free. For cleaning, all parts in contact with the product can be disassembled without tools.

## Specifications

| | |
|---|---|
| **Infeed guide and rejection system** | Plastic pipe (FDA), inner diameter 44 mm (1,73"), stainless steel ejection system, solenoid driven ejector, variable infeed / outfeed height, quick disassembly for easy cleaning |
| **Support stand** | Stainless steel, polished, with two castors and fixed feet, height adjustable |
| **Tablet flow rates** | Tablets Ø 5 x H 3.5 mm        31,200 pcs./min. <br> Tablets Ø 7 x H 4.5 mm        26,500 pcs./min. <br> Tablets Ø 12 x H 4.5 mm       12,200 pcs./min. <br> Tablets oval W 9 x L 16.5 x H 6.5 mm    10,500 pcs./min. |
| **Best metal sensitivity** | Ferrous               Ø 0.3 mm <br> Non-ferrous       Ø 0.4 mm <br> Stainless steel (316)   Ø 0.5 mm |
| **Electronics** | Digital signal processor, digital frequency generation, digital balance control, automatic calibration, digital noise filters, integrated flexible control functions |
| **Input** | 2 analog 0…10 VDC (Option: 4-20 mA) ; 8 freely configurable 24 V DC signals, e.g. for reject confirmation |
| **Output** | 2 floating: "error" and "metal" ; 8 freely configurable 24 V DC signals, e.g. for metal or acoustic alarm |
| **Inspection Method** | High-frequency magnetic field, multi-channel operation, symmetrical receiver coils |
| **Metal Detection** | Ferrous, non-ferrous (e.g. aluminium or copper) and stainless steel |
| **Product Compensation** | Memory for up to 250 products, automatic product compensation |
| **Enclosure Rating** | Control unit IP40, sensor IP65 |
| **Environmental Conditions** | +5 °C to +50 °C / +41 °F to +122 °F <br> Rel. humidity 30 % up to 85 % (non-condensing) |
| **Temperature of Goods Inspected** | Up to +70 °C / +158 °F |
| **Power Supply** | Single phase 110-230 V AC +/-5 %, 20 W typical (60 W max.) |
| **Interface** | RS232, USB- or ethernet option |
| **Maintenance** | Maintenance-free, self calibrating sensors |
| **Diagnostics** | Integrated diagnostic software, automatic self-test |

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