

MET 30+ UNIVERSAL

PHARMACEUTICAL METAL DETECTOR



ADC Graphics displayed
on Touchscreen System



Touchscreen Display available

- Design & Construction compliant with 21 CFR Parts 210 and 211
- BATCHCHEK records and signatures management compliant with 21 CFR Part 11
- Independently ATEX approved
- Validation Documents: IQ, OQ, PQ, Calibration standards and certification
- 30,000 per minute throughput
- Digital control and signal-processing
- User-friendly operation
- Auto-learn and automatic product tracking features
- Full Stainless Steel constructed detector - withstands aggressive cleaning
- Detector certified to NEMA 4 (IP65) sealing standard
- Networking options: RS232/485 or Ethernet datalink ports
- Failsafe reject options: Lift-flap, Diverter, Wash-in-Place and Dust-tight options
- Hi-line, Standard or Low-line systems available featuring Locks unique three axis gas strut stand
- Standard 19 language menu

The NEW DIGITAL MET 30+ **Universal** Pharmaceutical machine is the metal detector of choice by the worlds leading pharmaceutical companies. **Offering metal detection levels down to 0.25mm**, it can detect and reject metallic particles in pharmaceutical production lines at speeds of up to 30,000 tablets per minute. Where the MET 30+ **Universal** really excels is in its ability to create stable and sensitive setups with difficult product applications. Lock's innovative ADC technology allows operators to view product data in real time.

Robustly designed, the MET 30+ **Universal** pharmaceutical unit is easy to move into or out of position for cleaning. Placing the search head at the appropriate height for your production line could not be simpler with Lock's unique three dimensional gas strut stand which is suitable for use in any configuration.

LOCK

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TECHNICAL DATA

Automatic Set up

Conductive products such as iron tablets require careful set-up if optimum detection performance and low waste is to be achieved. The MET 30+ *Universal* can automatically set up 100 different product and settings and store these in memory.

Security codes

Three levels of selectable security codes are provided:

- Operator level to change product types
- Supervisor level to change set-up mode
- Engineering level to access factory set-up parameters.

RS232/485 or Ethernet datalink

Allows printing and networking of product data and Quality Assurance information.

Search head

Mirror polished stainless steel waterproof to IP65 and NEMA 4
Up to 30,000 tablets per minute can be processed.

Mounting

The MET 30+ *Universal* is mounted on a polished stainless steel gas strut stand with easy height adjustment in 3 dimensions. The clamp tilt control feature allows easy angular adjustment of the metal detector head in all orientations

Software selectable menu: display languages

English	Danish
German	French
Italian	Swedish
Spanish	Portuguese
Dutch	Finnish
Norwegian	Japanese*
Icelandic	Polish
Afrikaans	Slovene
Czech	Hungarian
Turkish	

* (with display change)

21 CFR, Part 11

The detector can be supplied complete with integral industrial PC with purpose-designed windows-based software and display screen. In this configuration it is Part 11 ready and provides the assurance that user inspection standards comply with current "Good Manufacturing Practice".

Product Chute and Reject Mechanisms

The MET 30+ *Universal* pharmaceutical unit is gravity-fed. The unit is supplied complete with a mirror-polished stainless steel grade 316 reject with air cushioned end stop which can be dismantled and cleaned without special tools. The optional wash-in-place reject system features a watertight and dust-tight product chute. An FDA approved infeed chute is included with all reject options. All rejects are supplied with a failsafe feature ensuring that contaminated products will not be accepted in the event of a mechanical or electrical fault. All reject mechanisms are fitted with an FDA approved PETG cover, enabling product flow to be monitored easily. The reject assemblies can be supplied with single or twin universal outlet pipe diameters for attachment to pipes etc.

Electronics features

- Universal hardware and software
- Digital control and processing
- Multiple product memory with the capacity for 100 products.
- Data retention when power is interrupted or disconnected
- Automatic balance control for adjustment-free operation
- Easy user-replaceable electronic module for minimum downtime
- Simple operator interface for ease of use
- Serial port or ethernet providing a print-out of detection events and 1200 event storage
- Calibration status indicator.

Calibration Sensitivities

Head Size	Ferrous	Non-Ferrous	StSt 316
95mm x 22mm	0.25mm	0.3mm	0.4mm
95mm x 38mm	0.3mm	0.35mm	0.5mm

ADC Software

- Graphical display of the metal detection process
- Product data in real time
- Electroluminescent touchscreen display (optional)
- User friendly interface
- Diagnostic tool for engineers. ADC data can be emailed or faxed for immediate technical support from Lock

Validation

The MET 30+ *Universal* design and applicable components are compatible with current GMP and comply with FDA requirements. Full validation documentation can be supplied with each system incorporating **IQ, OQ and PQ**

Outputs

Voltage-free relay contacts Rating 240V, 5A resistive

Power supply

Universal power supply 95-264V AC
47-63 Hz
Fuse 3A

Operating temperature/humidity

Temperature: -5° to 45°C/23° to 113°F
Humidity: up to 95% RH

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