

XMV Mark + Vision System

Ensuring product traceability and security



Space-saving design

The compact design saves valuable production space and allows very simple integration into new or existing pharmaceutical production lines.



Maximum reliability

Finely tuned system components including transfer belts, inkjet print systems and print verification cameras ensure an optimum production flow, perfect printing quality and increased line efficiency.



Maximum precision

Precise mechanical product transfers and reliable product sorting guarantee process reliability and a high production volume.



Track & Trace flexibility

Optimum printing of unique series of digits or data matrix barcodes to meet current and future legal requirements.



Marking, verification and sorting – the perfect combination of all processes in one compact system.

The XMV system minimises the risks inherent to the pharmaceutical industry and generates the crucial data required for tracking and tracing products via serial number, by meeting "E-pedigree" and "Track&Trace" requirements. The product codes printed onto the collapsible box by the printing system are verified for accuracy and legibility and serve as a key for legally required quality certificates.

The XMV system can be easily integrated into new production lines or added to upgrade existing lines, providing a full range of functions and user-friendliness while simultaneously reducing the complexity of your packaging process.

Technical data

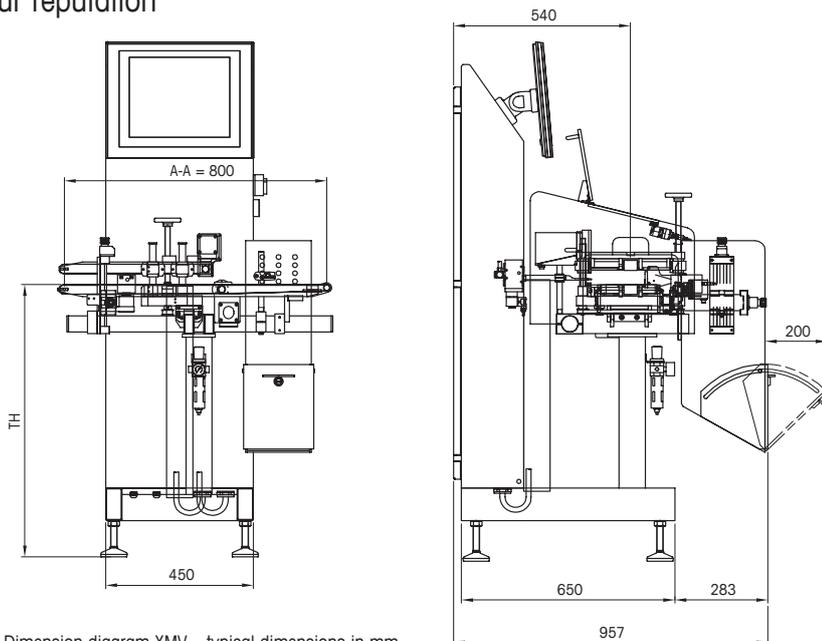
XMV Mark+ Vision System

– maximum protection for your products and your reputation

The XMV system marks collapsible boxes and verifies the imprint in a space-saving complete system. All integrated components, such as the mechanical transfer unit, inkjet printing system, high-resolution camera, product transfers and sorting equipment are perfectly matched. This complete system solution enables you to meet legal specifications such as serialisation, E-pedigree, Track & Trace solutions and additional future legal requirements.

The collapsible boxes are transferred directly from the cartoner by means of a mechanical transfer unit. Thanks to the wide range of setting options, the system can be adjusted to different box dimensions in a matter of seconds. An inkjet system prints unique data such as, batch codes, expiry dates and 2D barcodes in a very high quality on the side of the collapsible box. The camera system verifies the printed data and saves this in an internal database. Illegible or poor quality products are removed reliably and accurately.

The easy-to-use and highly adjustable components, the central user interface for product changeover and the rapid print cartridge replacement all ensure that set-up times are kept to a minimum, ensuring maximum availability.



Dimension diagram XMV – typical dimensions in mm

Standard XMV performance features

- An inkjet printer in the infeed area (1 print head) for clear, sharp printing of human-readable characters, serial numbers and barcodes (data matrix) in compliance with international printing standards
- Click & Print technology for rapid cartridge replacement, maintenance-free and non-wearing
- High-resolution camera system (standard: 640 x 480 pixels) for recording the printed data (OCR/OCV)
- Real-time data acquisition
- 21 CFR Part 11 function, extended user management, audit trail and password protection
- Mechanical transfer unit with lower belt and vertically adjustable upper belt for precise and reliable product transfer
- Continuous regulation of the belt speed
- Ultrafast sorting using a high pressure air jet
- Lockable polycarbonate collection containers, optimised for pharmaceutical products
- Adjustable height of the entire system for optimum line integration (± 30 mm)
- 115/230 VAC, 50/60 Hz, 1 phase, > 500 VA

Operating terminal

- 15 inch colour touchscreen TFT display, resolution 1024 x 768 pixels (XVGA) for clear and faultless operation
- All-in-one display incorporating all important configuration screens, such as camera settings, printing data, article change and batch inputs – for outstanding user-friendliness
- Windows-based, XP embedded operating system, optimised for high-speed camera and printing applications

Options

- Open flaps detection to protect the print head and downstream packaging machines with automatic conveyor shutdown
- Additional print heads for printing larger images
- Countercheck in the "good" path for full inspection, guaranteeing optimum reliability

- High-resolution camera (1600 x 1200 pixels)
- Stopper unit to stop products when the countercheck is activated
- Rejection countercheck using a light grid in the collection container
- Production fault detection
- Network connection to customer's Track & Trace system via an integration partner in order to meet legal requirements
- Transversal-adjustment of the entire system
- Full system protective cover
- Pressure monitoring device
- Product backup monitoring

* dependent on the dimensions of the carton and the data to be printed

** observe the printing height

Technical data

Technical data	XMV
Throughput (boxes/min)*	max. 400 pcs
Conveyor belt speed	max. 90 m/min
Box height	up to 100 mm**
Pass width	40 to max. 240 mm
Printer resolution	max. 600 dpi
Camera resolution	640 x 480 pixels
Line height (TH)	750 mm – 950 mm (± 30 mm)
Distance between roller centers (A-A)	800 mm
Standard sorting equipment	Air jet

nefton
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Σήμανση
Συμμόρφωση

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