

# MULTIDOSE

Efficient, Safe and Reliable Multi Dose  
Blister Packing







## WHY DOSE

Multidose medication blister cards take the confusion out of daily medication routines. The clear, user-friendly design makes it easy for patients and caregivers to manage multiple medications correctly.

These blister cards are perfect for patients with chronic conditions who need to stay on track with complex medication schedules.

### BLISTER CARDS

Each personalized blister card shows patients exactly what to take and when throughout the day. The VBM system offers flexible dispensing options—by dose, string or matrix sequence—making it suitable for hospital wards, nursing homes, retirement homes, and home care.

This clear medication overview helps patients stick to their treatment plans, leading to better medication adherence and improved health outcomes.



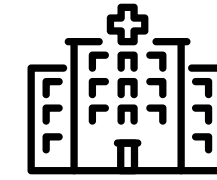
### BENEFITS FOR PATIENTS

Dose packaging helps patients take their medications correctly by clearly showing the right dose at the right time, along with complete medication instructions.



### BENEFITS FOR PROFESSIONAL CAREGIVERS

Each blister card is custom-made for individual patients, making distribution easier and reducing medication errors.



### BENEFITS FOR HOSPITALS

This cost-efficient automated solution significantly reduces errors while streamlining filling and checking processes.



### BENEFITS FOR PHARMACIES

This allows pharmacies to offer an additional service to patients without requiring extra staff time and with minimal risk of errors.





## VBM 200F

Manual filling and checking of multi-dose blister cards is time-consuming and prone to errors. The VBM's intuitive software provides a reliable automated workflow that reduces operational costs and integrates directly with hospital and pharmacy software systems.

The VBM holds 200 RFID pill cartridges and works with virtually any blister card on the market. It ensures safe, accurate packing by placing the right medication in the correct blister cup for each time of day.

This automation frees up staff to focus on patient care and counseling.

### GUIDED FILL STATION

The Guided Fill Station enables accurate manual filling of blister cards using real-time object detection and counting.

Operators are guided by multicolor LEDs for each medication, with a camera system providing instant feedback and an image record of the process.

Designed for flexibility, it is a perfect solution for pharmacies with lower blister card demand or space constraints.



## TECHNICAL INFORMATION



### DUAL CAMERA VERIFICATION

The Vision technology in both the Vision station and VBM takes pictures to verify every pill by quantity, size, shape, and color—ensuring consistent, quick verification and reducing errors.



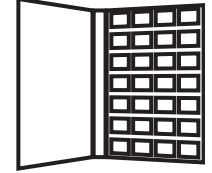
### TRACEABILITY

RFID tags in both pill cartridges and blister tray holders ensure complete traceability throughout the process. For pill cartridges, this allows seamless swapping and refilling without interrupting production.



### MANUAL FILLING VERIFICATION

The machine includes two built-in Multi Dispense Array trays for non-cartridge medications and pill fractions that operators fill manually. The Vision technology inside the VBM still verifies these items for accuracy.



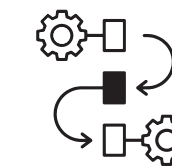
### BLISTER CARDS

The machine works with virtually any blister card on the market and adapts to customer needs and formats, including custom, patient-specific labels printed on each card.



### INTUITIVE SOFTWARE

The software is extremely intuitive with an easy-to-use interface. It enables the operator to track and trace each medication packed, keep an overview and control the packaging process.



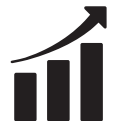
### EFFICIENT WORKFLOW

By combining intuitive software, RFID tags, and filling stations, the workflow achieves a throughput of up to 30-40 blister cards (7 rows x 4 columns), fully filled, verified, and sealed every hour.



### EASY TO MAINTAIN

The VBM includes features like a ventilator to minimize dust and is designed for easy cleaning and maintenance.



### UPSCALING POSSIBILITIES

The VBM supports both single and multiple machine workflows in large repackaging facilities, freeing up staff and improving efficiency.



## WORKFLOW

### VISION STATION

The Vision station enables building and maintaining a client-specific pill library. It uses the Vision technology and takes several pictures of every pill. This library then compares images of pills taken inside the VBM to verify accuracy.

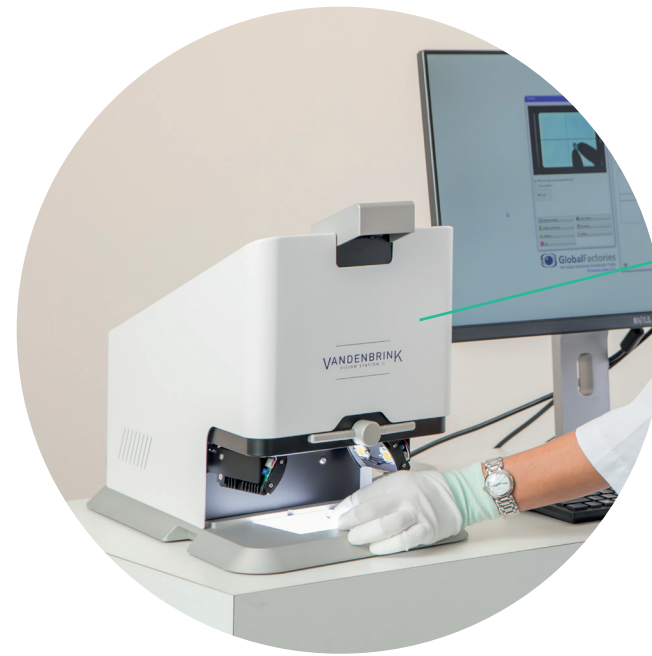
### AUTOMATIC FILLING AND VERIFICATION

The VBM automatically dispenses required medication from the pill cartridges for each intake time.

Every medication goes separately through the verification system, where pictures are taken and compared against the Vision library.

After verification, medication is dispensed into the correct blister cup, then the process continues with the next intake time.

Once the blister is completely filled and verified, the tray is presented to the operator while the VBM begins working on the next tray in queue.



VISION STATION



MDA TRAY



VBM 200F



BCO STATION

## WORKFLOW

### MANUAL DISPENSE ARRAY (MDA)

When cartridges aren't suitable due to pill size or other factors, the VBM includes 2 Multi Dispense Array (MDA) trays for manual medication addition. These trays feature guided lighting and on-screen instructions for safe processing before final verification. Any medication that fits in a blister cup can be added manually.

### BLISTER CHECK-OUT (BCO)

The BCO station guides operators through the final workflow steps: adding non-dispensable medications, reviewing and repairing flagged blisters, and applying the patient-specific blister labels.





# WORKFLOW ADD-ONS

## PREFILL STATION

Fractions, odd-sized, or other special medications can be manually added to the MDA trays using the Prefill Station. This allows operators to prepare blister holders in advance, ensuring a continuous packaging process without interrupting the VBM workflow.

## FLEXIFILL STATION

Special blister tray types that are not suitable for the VBM can still be prepared using the Universal Dispense Tray (UDT). With the FlexiFill Blister Station, medication in the UDT (verified by the VBM) can be safely deposited into the special blister card.



# WORKFLOW ADD-ONS

## FLEX I/O

The Flex I/O Module adds automation capacity to the VBM 200F by eliminating the manual task of placing and removing blister trays after each cycle. It can handle up to 20 blister trays per cycle.

Empty trays are received on the right and returned on the left, fully filled and verified.

With reduced manual handling and up to 20 minutes of continuous packaging, pharmacies gain a more efficient workflow while operators can dedicate time to other valuable tasks.

## SPECS

Measurements (W x D x H) (mm)	1025 x 800 x 1700
Weight (kg)	~170
Power supply	100-240VAC, 50-60Hz
Operating environment	Low dust environment

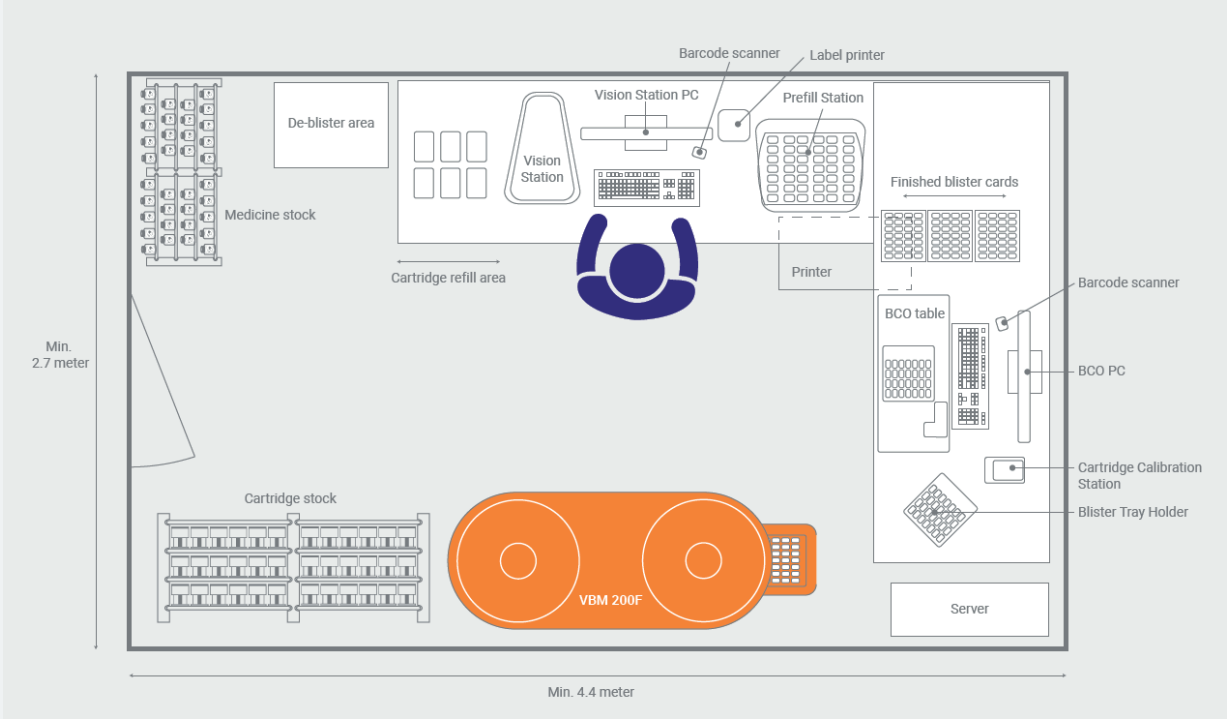
## FLEX I/O



# TECHNICAL DESCRIPTION

SPECIFICATIONS	VBM 200F
Track and traceability of every medication	✓
Checking & verification of every medication	✓
Amount of cartridges in the VBM	200
Swappable cartridges with RFID	✓
Width (mm)	1965
Height (mm)	2061
Depth (mm)	823
Required footprint (mm)	2500x1500
Weight (kg)	635
Power supply	100-240VAC, 50-60Hz
Power consumption	800W
Network Requirements	1 Gbit/s minimum
Operating environment	5-40°C and <80% RH non-condensing
Maximum card size (mm)	265x220x25
Pill size lenght/width limitation (mm)	5 - 23
Pill size thickness limitation (mm)	1.5 - 8.5 mm (pill thickness)
Maximum throughput	30-40 cards/hour (blister format 4x7)
Noise level	58-63 dB(A)

# EXAMPLE FLOOR LAY-OUT



# FOR YOUR PEACE OF MIND

Meditech supports you in every step of your multidose journey. From advanced blister card automation and reliable filling technologies to smart digital tools that enhance traceability and safety, our solutions are designed to simplify your workflow and improve patient care.

Whether you need high-speed production, modular extensions such as automatic loading or stacking, or compact systems for pharmacies with lower volumes, Meditech delivers technology that fits your needs.

With our experience in robotics, digital solutions, and logistic innovations, we help you maximize efficiency while ensuring every dose is correct, documented, and secure.





Lodewijk de Raetlaan 20

B-8870 Izegem

**T** +32 (0)51 31 21 81

**E** [Info@meditech-pharma.com](mailto:Info@meditech-pharma.com)



[www.meditech-pharma.com](http://www.meditech-pharma.com)