

BOTTLETRACKER™

PREPARE YOUR SERIALIZED BOTTLES
FOR AGGREGATION TO FACILITATE TRACKING



PHARMA



MEDICAL DEVICES

The **BottleTracker™** handles the verification of serial numbers and facilitates bottle aggregation into secondary packages without impacting the production flow.

This station allows various inspections such as presence and placement verification of labels and leaflets. It is specially designed to increase your quality and compliance with labeling regulations while improving your line efficiency by obtaining a leaner operation.

To facilitate the tracking of a bottle going into a secondary package such as bundle or case, this solution is built to print and inspect a temporary unique identifier (tracking code) on the bottle bottom using black or UV ink.

It has a unique 2D-reading technology and includes adjustable belts to support various sizes and product shapes. As part of the TrackSafe™ product family, the BottleTracker™ connects in real time with OPTEL's LineMaster™ in order to verify and report serial numbers.

KEY FEATURES

- 360° reading of EPC
- Label/leaflet presence and placement detection
- Tracking code printed by continuous inkjet
- Ejection with confirmation
- Speed up to 300 bottles/minute

BENEFITS

- Precise and robust bottle handling (round, square, oblong)
- Fast association without risk
- Toolless adjustments
- All-in-one station
- Turnkey installation

BOTTLETRACKER™

PERFORMANCE

Linear Speed	From 4.5 m/min to 35 m/min
Production Rate	Up to 300 bottles/min
Printer Model	Domino Ax350i
Tracking Code Position	Under the bottle

360° VISION SPECIFICATIONS

	SBT001	SBT003
Bottle Diameter	22 to 75 mm	33 to 114 mm
Field of View	86 x 54 mm	124 x 78 mm
Decoding Capability	1D, 2D	1D, 2D
Data Matrix Module Size*	From 0.23 mm	From 0.33 mm
Barcode Line Width	From 0.15 mm	From 0.21 mm
Barcode Orientation	Ladder	Ladder

UTILITIES

Conveyor Height	914 ± 50 mm (36 ± 2")
Power Requirements	120-240 VAC 50/60 Hz
Compressed Air	6 bar (90 psi)

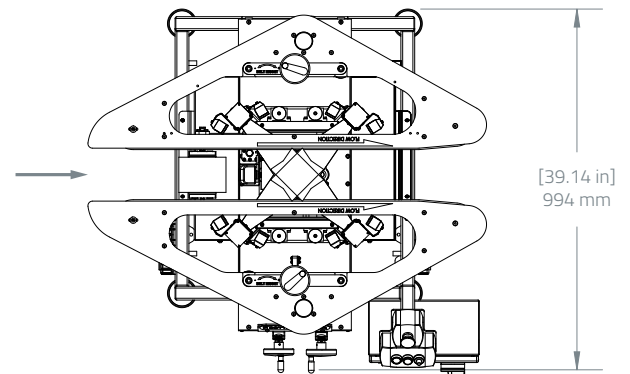
* The overall Data Matrix size varies depending on the exact size of the bottle.

BOTTLE DIAMETER

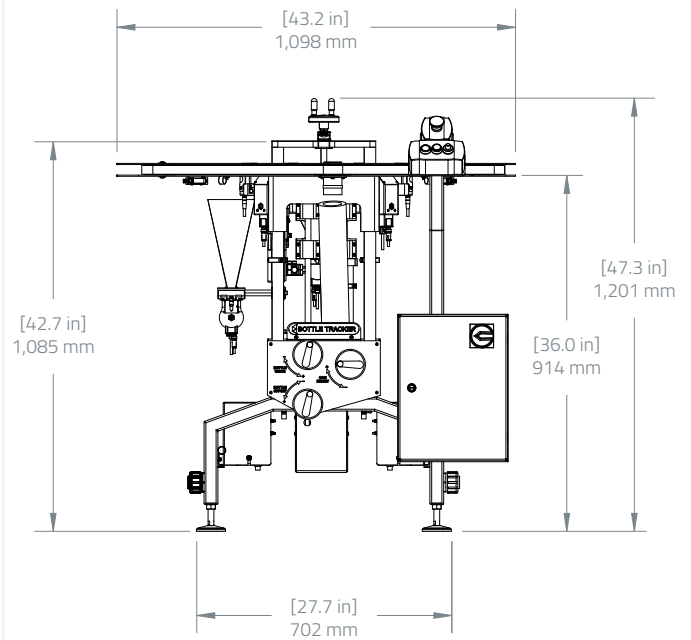
	Min	Max
SBT001	22	75
SBT003	33	114



TOP VIEW



FRONT VIEW



TRACKING PROCESS OVERVIEW

Tracking is used to ensure that products can be located at any time on the production line in order to prevent defective products from reaching the next step of the production process.

The illustration below depicts the BottleTracker™ and other usual peripherals used within a typical tracking process.

1 INFEED

The bottle flow is controlled to ensure proper transition and spacing to the BottleTracker™.

2 TRACKING CODE PRESENCE VERIFICATION

A camera verifies if a tracking code is already present under the bottle by comparing the acquired image to the reference image.

3 PRINTING

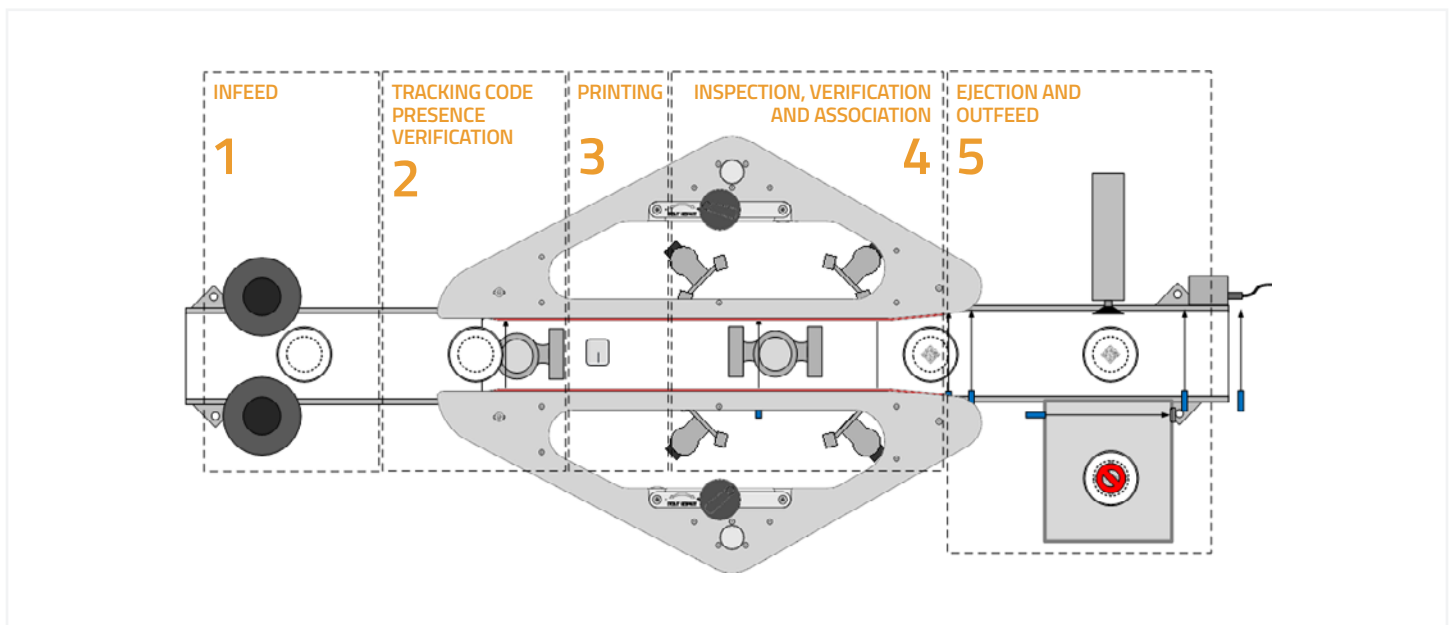
If no tracking code was detected, a tracking code is printed under the bottle with black or UV ink.

4 INSPECTION, VERIFICATION AND ASSOCIATION

A 360° camera setup inspects and verifies the EPC on the bottle label and another camera inspects the tracking code. If both inspections are successful, the tracking code is associated to the bottle EPC.

5 EJECTION AND OUTFEED

If the EPC or tracking code inspection failed, the ejection of the defective bottle is performed, with confirmation that the bottle is no longer on the conveyor belt beyond the ejection zone. Outfeed can be supplied by OPTEL to ensure proper transition to next downstream station and control bottle accumulation.



BOTTLETRACKER™ SBT001 – STANDARD SOLUTION SPECIFICATIONS

- Floor-mounted electrical enclosure
- BottleTracker™ for bottom bottle tracking code
- Left-to-right product flow
- Small bottle diameter (22 to 75 mm)
- 36-inch conveyor height
- OPTEL HMI
- Bypass key
- Multi-segment LED tower light indicator
- Camera for tracking code presence verification
- 360° quad-camera station for bottle inspection
- Camera for tracking code inspection
- OP300 software
- Barcode analyzer
- Domino Ax350i for tracking code printing (black ink)
- Serialization-ready
- Pneumatic ejector with mounting brackets
- Ejection bin with ejection confirmation sensor
- 3x sensors (resynchronization, good product, accumulation)
- Encoder for outfeed conveyor

NOTES:

- Preliminary lead time: 18-22 weeks

ORDERING INFORMATION – STANDARD SOLUTION CONFIGURATION

Encompassing all of OPTEL's expertise and legacy, this standard BottleTracker™ configuration is a predesigned hardware and software solution that meets your bottle association needs quickly and cost-effectively, while conforming to current industry standards.

To obtain a quote, contact your Account Director, who will work with our quote department to provide you with accurate pricing for your solution. Should these options not fit your specific requirements, feel free to discuss your needs with your Account Director, as we also provide custom solutions upon request.

ADDITIONAL INFORMATION REQUIRED FOR QUOTE

- Bottle/label samples
- User Requirements Specifications (URS)
- Product matrix
- Floor layout

SALES ITEM	SOLUTION	SPECIFICATIONS
SBT001	BottleTracker™	Refer to the specifications above
SALES ITEM	OPTIONS	SPECIFICATIONS
SBT002	Right-to-Left Product Flow	<ul style="list-style-type: none"> ▪ Right-to-left product flow
SBT003	Large Bottle Diameter (32 to 114 mm)	<ul style="list-style-type: none"> ▪ 360° quad-camera station for bottle inspection ▪ Ejection bin for larger bottles
SBT004	Tracking Code: UV Ink	<ul style="list-style-type: none"> ▪ Domino Ax350i for tracking code printing (UV ink) ▪ 2x UV filters and UV LED lighting upgrade for tracking code verification and inspection <i>Ultraviolet tracking codes will be invisible to the consumer.</i>
SBT005	Spacing Wheel	<ul style="list-style-type: none"> ▪ Adjustable spacing wheels for bottles ▪ Mounting support
SBT006	Infeed Conveyor	<ul style="list-style-type: none"> ▪ Infeed conveyor ▪ 36-inch conveyor height ▪ Mounting support ▪ Pads or casters available ▪ Emergency stop
SBT007	Outfeed Conveyor	<ul style="list-style-type: none"> ▪ Outfeed conveyor ▪ 36-inch conveyor height ▪ Mounting support ▪ Pads or casters available ▪ Emergency stop

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