PACKSTATION™ SAP

A SEMI-AUTOMATED PACKING STATION ENSURING THE IDENTIFICATION AND VERIFICATION OF MANUALLY PACKED PRODUCTS

OPTEL™
Traceability technologies for a better world

The PackStation™ SAP (Semi-Automated Packing) allows efficient aggregation of serialized items to a serialized parent in accordance with GS1 standards.

Items are inspected at the first station to ensure they are valid before packing them in a case. After the item inspection is successful, an integrated Print-and-Apply system automatically applies a label on the parent container and this newly printed label is inspected to complete the aggregation.

Visual indicators are present for both children and parent inspection stations to confirm the inspections are successful or defects have been identified. If defects are found, the **PackStation™ SAP** has features to prevent the operator from sending the defects to the next step of the production process.

With this setup, the **PackStation™ SAP** increases your manual packing speed and connects to OPTEL's **LineMaster™** in real time in order to verify and report the serial number.

OPTEL's unique barcode-reading technology gives you the most efficient reading, ensuring maximum performance of your packing operations. The station supports both GS1 serial number formats.

KEY FEATURES

- Serialization and aggregation of carton/bottle/bundle to case
- Audit trail and batch trail event logging
- Simple user interface
- Color-coded LED indicator for ergonomic efficiency

BENEFITS

- Compliance with regulations
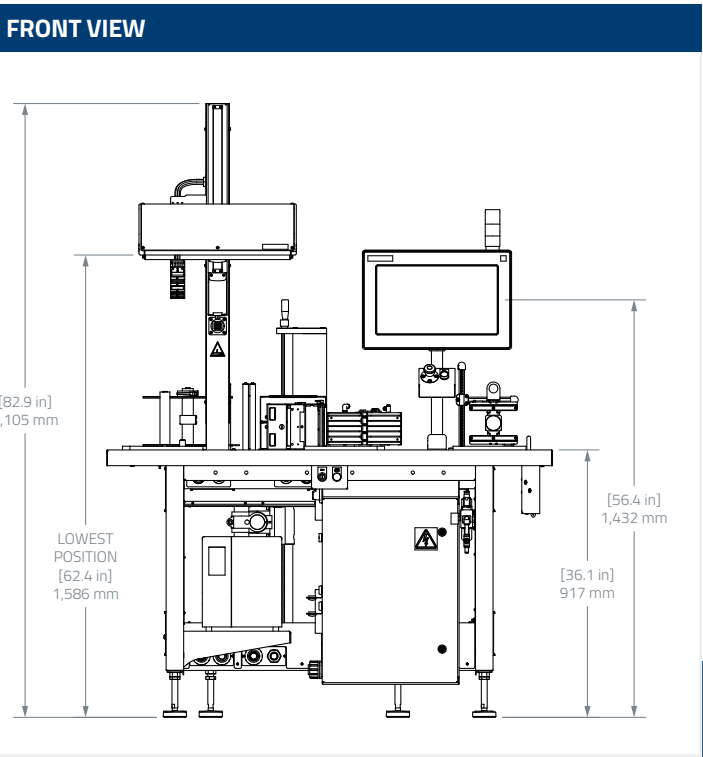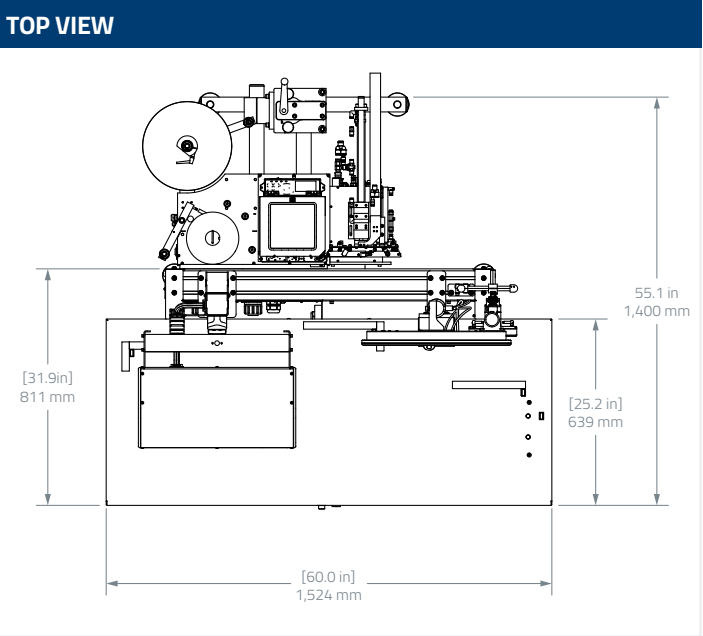- Minimal training and easy operation

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SPK001

PERFORMANCE

Designed for	Bottles, cartons, bundles, cases
Requires	One operator

VISION SPECIFICATIONS

	Children	Parent
Field of View	Up to 600 mm x 400 mm	160 x 134 mm
Decoding Capability	2D	1D, 2D
Data Matrix Module Size	From 0.14 mm	From 0.27 mm
Human-Readable Character Height	N/A	From 2 mm
Linear Barcode Line Width	N/A	From 0.17 mm

UTILITIES

Blocker	Pneumatic
Power Requirements	120-240 VAC 50/60 Hz
Compressed Air	6 bar (90 psi)
Table Height	914 mm ± 50 mm (37" ± 1")

TOP VIEW

[31.9in] 811 mm
55.1 in 1,400 mm
[25.2 in] 639 mm
[60.0 in] 1,524 mm

FRONT VIEW

[82.9 in] 2,105 mm
[56.4 in] 1,432 mm
LOWEST POSITION [62.4 in] 1,586 mm
[36.1 in] 917 mm

SPK001

TRACKING PROCESS OVERVIEW

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

The illustrations below depict the PackStation™ SAP in two common configurations. The first configuration is on a table and the second is full integration with case erector, case taper and conveyor.

1 CHILDREN VERIFICATION*

An image of the codes printed on individual items or layered items is inspected and verified by comparing it to a reference image.

2 VISUAL CONTROL (CHILDREN)

A visual indicator alerts the operator to defects on individual items or on each layer. The LED indicator enhances this process by lighting up with an appropriate color based on the inspection results, thereby improving ergonomics. If defects are found, no parent label is printed, and the children verification must be redone.

3 PRINTING

A label is printed when the children verification is successful. The label is applied when the parent reaches the appropriate sensor.

4 PARENT INSPECTION AND AGGREGATION*

The label is inspected by comparing it to a reference image once the case reaches the appropriate sensor. If the inspection is successful, the children are associated to the parent.
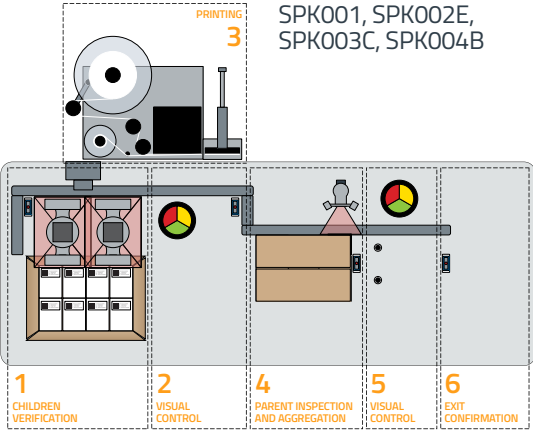
5 VISUAL CONTROL (PARENT)

A visual indicator will alert the operator to defects on the parent label. If defects are found, a pneumatic blocker or an ejection station handles the product.
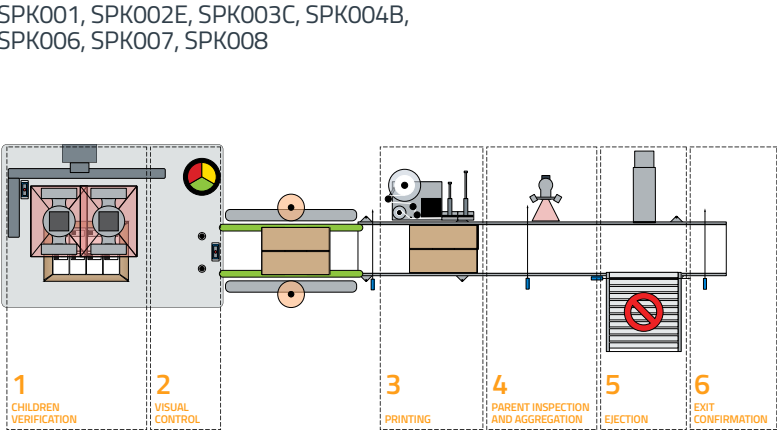
6 EXIT CONFIRMATION

Before starting a new case, the appropriate sensor must confirm that the valid parent has left the PackStation™ SAP.

* Cameras can be replaced by barcode scanners

SPK001, SPK002E, SPK003C, SPK004B

SPK001, SPK002E, SPK003C, SPK004B, SPK006, SPK007, SPK008

1 CHILDREN VERIFICATION
2 VISUAL CONTROL
4 PARENT INSPECTION AND AGGREGATION
5 VISUAL CONTROL
6 EXIT CONFIRMATION

1 CHILDREN VERIFICATION
2 VISUAL CONTROL
3 PRINTING
4 PARENT INSPECTION AND AGGREGATION
5 EJECTION
6 EXIT CONFIRMATION

PACKSTATION™ SAP
SPK001

TRACKING OPTIONS

CHILDREN VERIFICATION OPTIONS

Inspected Product	Inspection Method	Result	Matching Option
SINGLE ITEM		Valid items are packed one by one	SPK002A
LAYERS OF ITEMS	OR	Valid layers are packed one by one	SPK002B/SPK002D
		Valid layers are packed one by one	SPK002C/SPK002E

PARENT INSPECTION OPTIONS

Inspected Product	Inspection Method	Result	Matching Option
CASE LABEL	OR	Case is serialized and aggregated	SPK004A
		Case is serialized and aggregated	SPK004B

VISUAL CONTROL WITH LED INDICATOR

Children Verification – Control	Successful Verification – Green LED	Defective Verification – Red LED

PACKSTATION™ SAP
SPK001

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STANDARD SOLUTION SPECIFICATIONS

SALES ITEM	SOLUTION	SPECIFICATIONS
SPK001	**PackStation™ SAP**	▪ Packing workstation with stainless steel countertop ▪ Integrated electrical enclosure ▪ OPTEL HMI on table ▪ Multi-segment LED tower light indicator ▪ Left-to-right product flow ▪ OP300 software ▪ Barcode analyzer ▪ Pneumatic blocker to prevent defective products from reaching next step **NOTES**: ▪ *Add or requires option SPK002 for children verification* ▪ *Add or requires SPK003 for case printing* ▪ *Add or requires SPK004 for case parent inspection*

SALES ITEM	OPTIONS	SPECIFICATIONS
SPK002A	**Handheld Scanner for Children Verification**	▪ Scan-and-pack configuration ▪ Handheld barcode scanner for manual packing (Datalogic PowerScan PM9600)
SPK002B	**Single-Layer Pack-and-Scan Children Verification (400 x 346)**	▪ Pack-and-scan configuration ▪ Camera for children case content verification (FOV < 400 mm x 346 mm) ▪ Manually adjustable camera height for single-layer ▪ Sensor for automatic verification ▪ LED indicator
SPK002C	**Single-Layer Pack-and-Scan Children Verification (600 x 400)**	▪ Pack-and-scan configuration ▪ Camera for children case content verification (FOV < 600 mm x 400 mm) ▪ Manually adjustable camera height for single-layer ▪ Sensor for automatic verification ▪ LED indicator
SPK002D	**Multi-Layer Pack-and-Scan Children Verification (400 x 346)**	▪ Pack-and-scan configuration ▪ Camera for children case content verification (FOV < 400 mm x 346 mm) ▪ Camera height adjusted automatically for multi-layer ▪ Sensor for automatic verification ▪ LED indicator

SALES ITEM	OPTIONS	SPECIFICATIONS
SPK002E	**Multi-Layer Pack-and-Scan Children Verification (600 x 400)**	▪ Pack-and-scan configuration ▪ Camera for children case content verification (FOV < 600 mm x 400 mm) ▪ Camera height adjusted automatically for multi-layer ▪ Sensor for automatic verification ▪ LED indicator
SPK003A	**ZT411 Printer**	▪ Zebra ZT411 desktop label printer *Label needs to be manually applied at appropriate position to be inspected by camera*
SPK003B	**ZT421 Printer**	▪ Zebra ZT421 desktop label printer *Label needs to be manually applied at appropriate position to be inspected by camera*
SPK003C	**Integrated Print-and-Apply**	▪ Domino M400 corner-wrap label applicator ▪ Zebra ZE511 print engine ▪ Full integration of print-and-apply labeler on workstation
SPK004A	**Handheld for Case Parent Inspection**	▪ Available for pack-and-scan or scan-and-pack configuration ▪ Handheld scanner for case parent inspection
SPK004B	**Camera for Case Parent Inspection**	▪ Camera for case parent inspection (FOV < 160 mm x 134 mm) ▪ Can inspect either label from desktop printer or print-and-apply
SPK005	**Casters for Mobile Station**	▪ Casters installed on workstation
SPK006	**Case Labeling Conveyor**	▪ Outfeed conveyor, 16 in wide by 7 ft long ▪ 32-inch or 36-inch heights available ▪ Mounting support ▪ Pads or casters available ▪ Emergency stop
SPK007	**Ejection Gravity Conveyor for Case Labeling**	▪ Gravity ejection conveyor for cases ▪ Pneumatic ejector with mounting brackets
SPK008	**Case Taper**	▪ BEL252 case taper ▪ Different options available ▪ Specifications supplied on request with quote

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ORDERING INFORMATION – STANDARD SOLUTION CONFIGURATION

Encompassing all of OPTEL's expertise and legacy, this standard PackStation™ SAP configuration is a predesigned hardware and software solution that meets your label tracking needs quickly and cost-effectively, while respecting 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

- Make and model of customer OEM being integrated
- Product Matrix, label and product samples
- User Requirements Specifications (URS)
- Floor layout

NORTH AMERICA HEADQUARTERS
OPTEL Canada
1989

EUROPE
OPTEL Ireland
2014

EUROPE
OPTEL Germany
2021

ASIA
OPTEL India
2016

SOUTH AMERICA
OPTEL Brazil
2017

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