

END-OF-LINE SOLUTION WITH A COBOT PALLETIZER

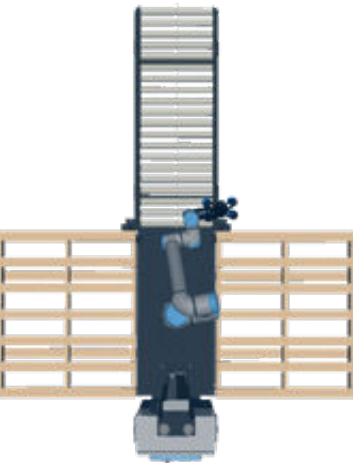


 **OPTEL™**
Traceability technologies for a better world

OPTEL offers a new end-of-line collaborative solution for your serialized lines. The solution includes a collaborative robot (cobot) that can assist your palletizing needs with minimum impact on your lines.

The solution provides fast return on investment helping your business decrease costly human errors and solving labor shortage issues.

This solution must be integrated with the following OPTEL solutions: Case Labeling Station™, PackStation SAP™, PackStation SAP for Case Erector™ and PackStation CAP™.



VALUE PROPOSITION

Cobot Palletizer for the end of the serialization line:

- Assist production crew with repetitive tasks
- Prevents repetitive tasks inducing (costly) human errors
- Assists with labor shortages or high turnover rates positions
- Prevents medical absenteeism related to non-ergonomic tasks that negatively impact workers health
- Frees workers for higher-value tasks
- Designed for collaboration with humans feeding and removing pallets
- Decreases overall production costs with a fast ROI
- Fast implementation for a low-cost deployment
- Simple onboarding and operations with minimum training
- Automated trajectory and robot movements creation and optimization
- Can support aggregation



KEY FEATURES

- Small floor footprint, fitting existing floor plans
- Designed for human - robot interaction, without cages or restricted spaces
- Additional safeguard devices available
- Multiple options for different package dimensions and weight
- Multiple gripper designs available for different applications



BENEFITS

- Low downtime and low maintenance
- All essential components included and integrated
- Fully integrated with OPTEL solutions for serialization

© 2023 by OPTEL GROUP. All rights reserved.

optelgroup.com

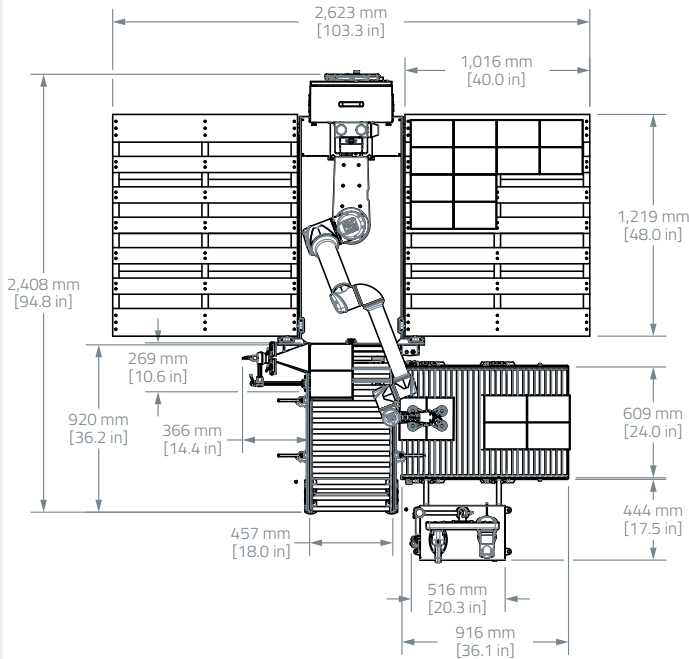
SPECIFICATIONS

BOX	SPA005	SPA005C
Max Payload with EOAT	Up to 16 kg (35 lbs)	
Max. Box Throughput	Up to 13 cycles/min*	
Min. Box Dimensions	50 x 50 x 50 mm (2 x 2 x 2 in)	

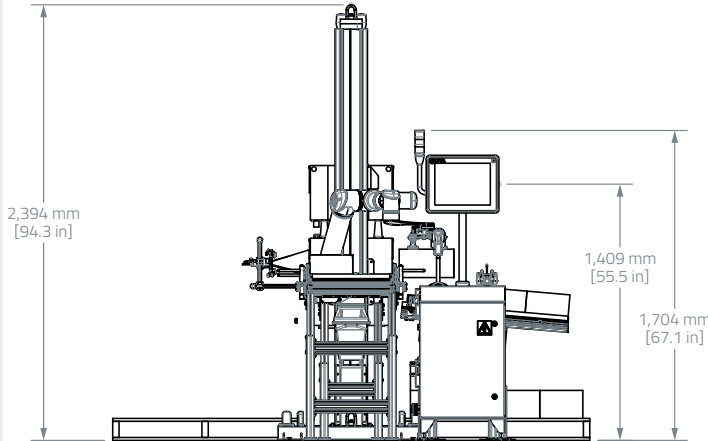
* Depending on box weight, dimensions, and surface, as well as pallet dimensions and layout.

PALLET	SPA005	SPA005C
Pallet Dimensions – Width	From 300 mm to 1219 mm (12 in to 48 in)	
Pallet Dimensions – Depth	From 300 mm to 1219 mm (12 to 48 in)	
Pallet Height – Empty	Min. 50 mm (2 in)	
Pallet Height – Filled	Max. 1500 mm (60 in)	Max. 2750 mm (108 in)

TOP VIEW - SPA002, SPA005, SPA003, SPA004, SPA006, SPA005A, SPA005E



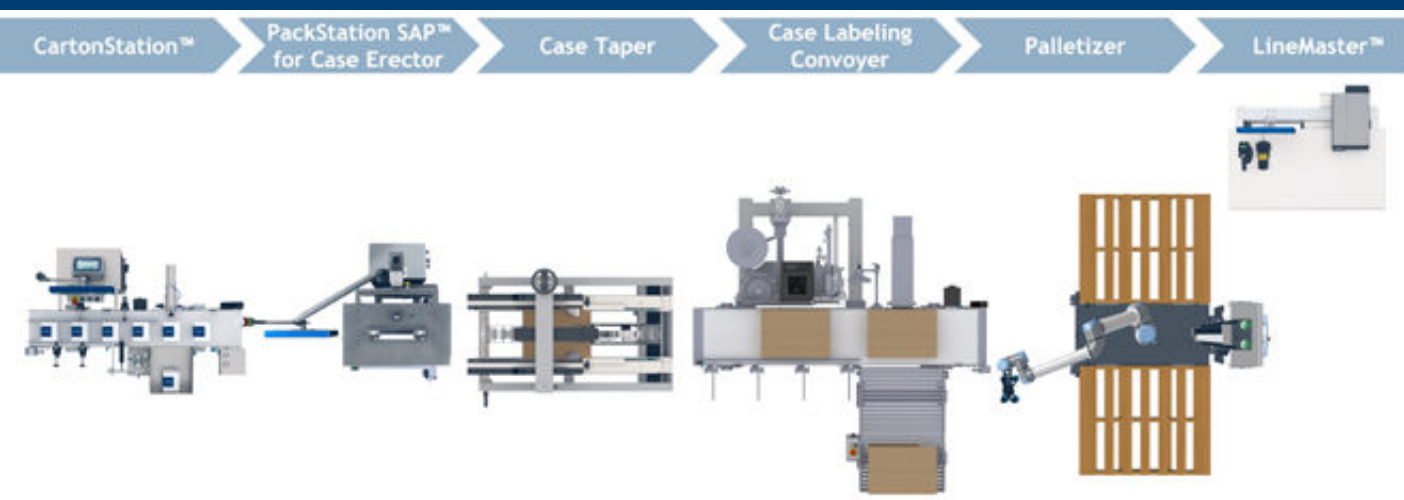
FRONT VIEW - SPA002, SPA005, SPA003, SPA004, SPA006, SPA005A, SPA005E



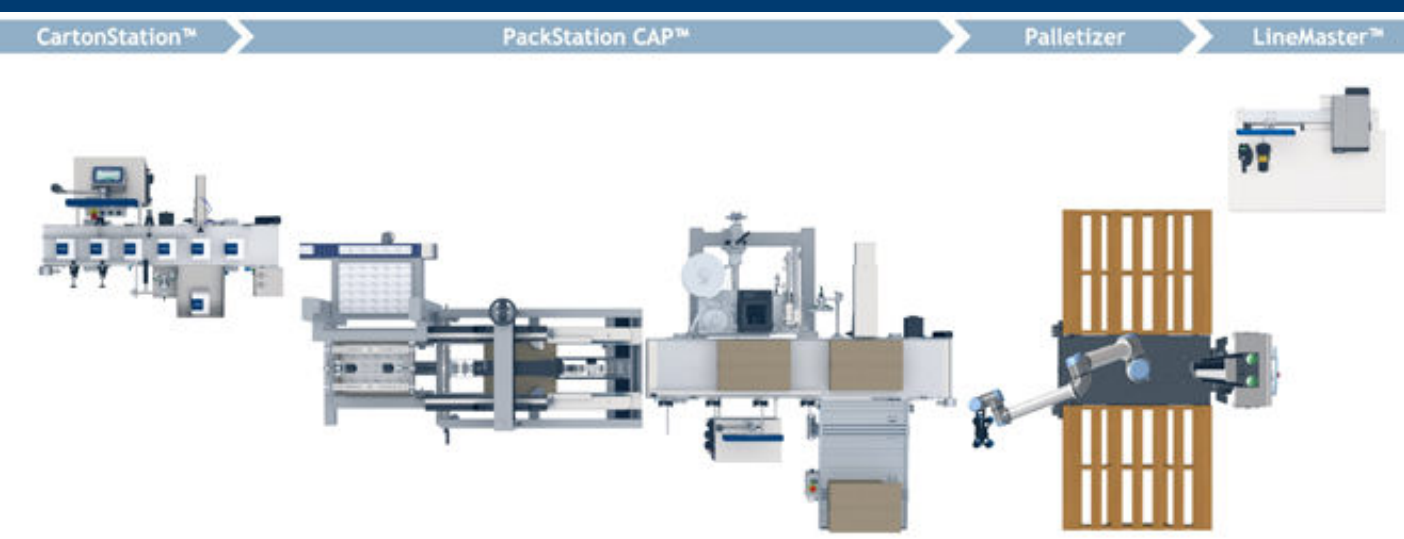
COBOT PALLETIZER



EXAMPLE OF A FULLY AUTOMATED ITEM SERIALIZATION WITH SEMI-AUTOMATED PACKING, PALLETIZING OPTION AND REWORK



EXAMPLE OF A FULLY AUTOMATED SERIALIZATION WITH PALLETIZING OPTION AND REWORK



optelgroup.com

© 2023 by OPTEL GROUP. All rights reserved.

optelgroup.com

© 2023 by OPTEL GROUP. All rights reserved.

END-OF-LINE SOLUTION
WITH A COBOT PALLETIZER

END-OF-LINE SOLUTION
WITH A COBOT PALLETIZER

COBOT PALLETIZER
STANDARD SOLUTION SPECIFICATIONS

SALES ITEM	SOLUTION	SPECIFICATIONS
SPA001	Palletizer (Virtual System)	- A completely automated aggregation solution for palletizer - Camera for case inspection (Field of view: 160 mm x 134 mm) - Inspection "good result" and "data valid" signals for palletizer - Handheld scanner for pallet rework on InspectProof™ - OP300 software with bar code and Data Matrix analyzers NOTES: - Stand-alone InspectProof™ system options may be needed if limitation applies - Tracking process is managed by OEM or customer by sending zone transfer signals - If OEM requires modifications, variances may be charged - Engineering documents included: Functional & Design Specifications (FDS), software alarm specification, access level configuration, electrical drawings, mechanical drawings, user's manual - No validation documentation included (FAT, SAT, IQ) - Software version to be determined by OPTEL
SPA002	Stand-Alone InspectProof™ System	- Floor-mounted electrical enclosure - OPTEL Human-Machine Interface (HMI) on enclosure - Multi-segment LED tower light indicator
SPA005	Cobot Palletizer (PE Series)	- Cobot Palletizer UR10e (PE Series) - Trigger sensor for case inspection - Pallet height up to 60 inches - Includes programming of 5 product patterns (additional fee to be evaluated for more than 5 products) - Case maximum weight is 8 kg



© 2023 by OPTEL GROUP. All rights reserved.

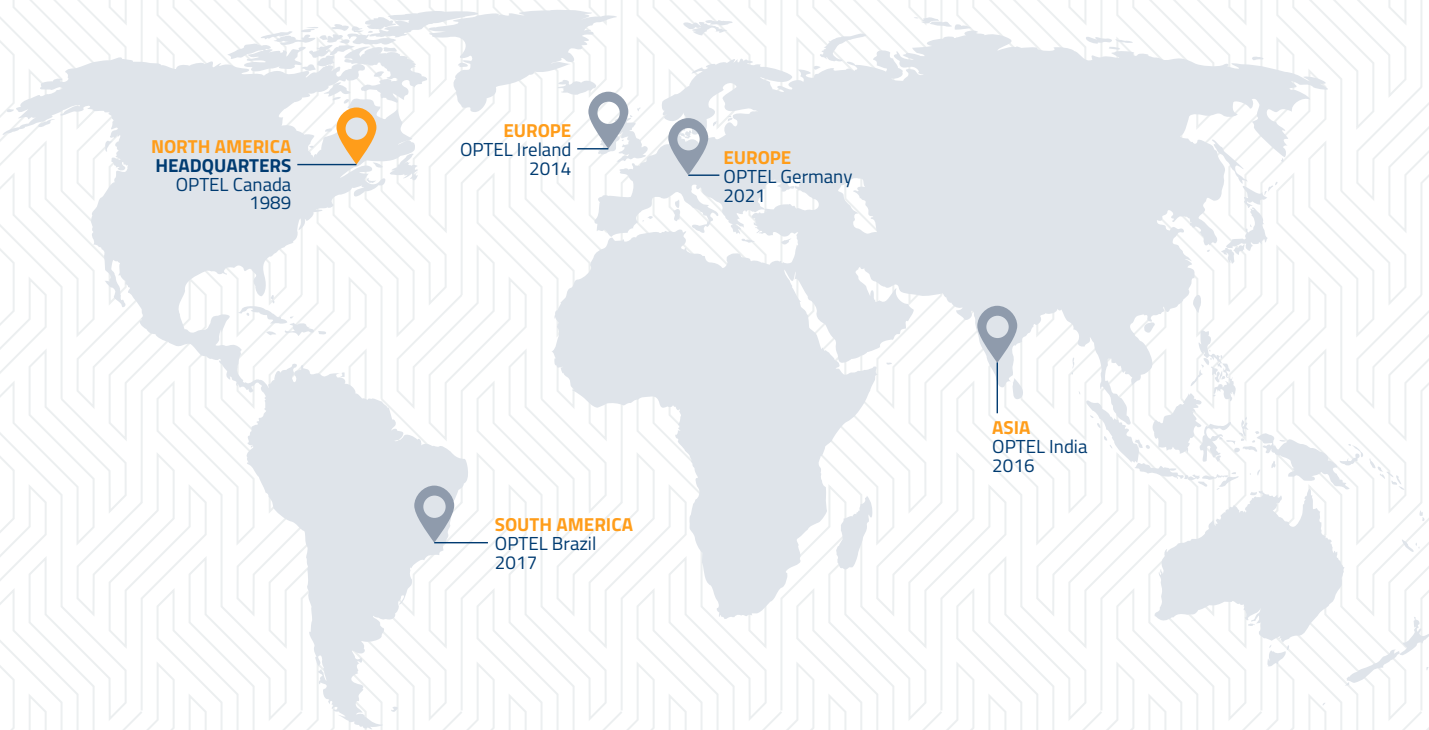
optelgroup.com

SALES ITEM	SOLUTION OPTIONS	SPECIFICATIONS
SPA003	Automated Pallet Aggregation	- Additional camera for pallet aggregation with a field of view of 160 mm x 134 mm - Signals from OEM, zone & result - Cannot be provided with a Cobot Palletizer (SPA005 & related options)
SPA004	Infeed Gravity Conveyor	Gravity conveyor with adjustable guide (width of 460 mm x length of 915 mm)
SPA006	Gravity Conveyor for Rejects	- Gravity conveyor (width of 610 mm x length of 915 mm) - Trigger sensor for reject conveyor full

SALES ITEM	ROBOTICS OPTIONS	SPECIFICATIONS
SPA005A	Gripper: Standard Airpick	Case Grip for payload under 6 kg
SPA005B	Gripper: Heavy Weight Airpick	- Case Grip for payload over 6 kg - For product exceeding limitations, further investigation are needed prior accepting purchase order from customer
SPA005C	Upgrade to AX Series Cobot Palletizer	For pallet height up to 104 inches
SPA005D	Security Zone Scanner with Basic Fencing	- Zone scanner is used on the teach pendant side, to either stop or slow down robot depending on the distance of the trespassing object. - Physical fencing on the side of pallets only - Zones dimensions configuration included
SPA005E	X3 Security Zone Scanners Without Fencing	Complete zone scanner without fencing
SPA005G	On-site Integration With Travel Fees for North America	- Technician specialized in the collaborative robot palletizer travels to the customer site in North America to integrate the palletizer - Other regions must be treated as a custom request
SPA005H	UR20 Robot for Payloads Above 10 kg	- Cannot be combined with the AX version option - Includes the gripper - Requires one of the security options (-1S or -3S)

END-OF-LINE SOLUTION
WITH A COBOT PALLETIZER
SPA001

END-OF-LINE SOLUTION
WITH A COBOT PALLETIZER
SPA001



ABOUT OPTEL

OPTEL is a global company with manufacturing sites on four continents and 600 employees around the globe. The company has 30 years of proven expertise in developing and deploying track-and-trace, vision and traceability systems for the world's leading pharmaceutical, food and beverage, and agrochemical brands. OPTEL is a Certified B Corporation and co-founder of the Canadian AI supercluster for supply chains (Scale AI).

CONTACT US

For more information, visit: optelgroup.com.



NORTH AMERICA

OPTEL Canada — HEADQUARTERS
+1 418 688 0334

EUROPE

OPTEL Ireland

EUROPE

OPTEL Germany

ASIA

OPTEL India
+91 832 669 9600

SOUTH AMERICA

OPTEL Brazil
+55 19 3113 2570

optelgroup.com
© 2023 by OPTEL GROUP.
All rights reserved.

