





# PAL TRACK&TRACE DEVICES AGGREGATION

Pharmaceutical aggregation represents evolution of product serialization. It involves linking unique product identifiers to higher packaging levels—such as bundles, shipper cases, and pallets. Opticum devices ensure seamless integration into GxP-compliant environments and fully adhere to FDA 21 CFR Part 11 and EU GMP Annex 11/15 requirements, guaranteeing data integrity, traceability, and regulatory compliance.



## PAL - AUTOMATIC PALLETIZER

The palletizer is designed as an auxiliary unit for the case packer (side-load and top-load models) and connects directly to its outfeed. It enables a fully automated palletizing process, including the aggregation of shipping boxes onto pallets. A robotic arm picks up boxes from the case packer's outfeed conveyor and places them on pallet. During stacking, anti-slip coating is applied to each box bottom, or anti-slip paper is inserted between pallet layers, ensuring pallet stability during transport. After stacking is complete, the system prints and applies a pallet label.

#### **HIGHLIGHTS:**

- Automatic palletizing: Stacking shipping boxes onto pallets in various configurations.
- Pallet stability: Option to apply anti-slip coating to boxes bottom or insert anti-slip sheets between box layers for greater pallet stability during transport.
- Pallet labeling: After stacking, the system prints and applies the pallet label.
- Intuitive HMI interface: Operated via the case packer's screen or an additional palletizer screen.

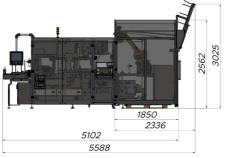
- Two pallet positions: Allows pallet unloading during machine operation.
- Flexible configuration: The robotic arm supports various stacking patterns on pallets.
- Pallet aggregation: Fully automatic pallet aggregation based on decoding codes on shipping box labels.
- Pallet label printing: Automated printing, application, and presence check of pallet labels.

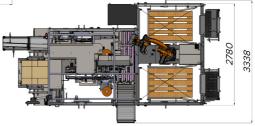


## **TRACK & TRACE**

The device's core software can be extended with a Track & Trace module, designed to meet the evolving demands of lobal pharmaceutical serialization and aggregation regulations. This module ensures compliance with all currently known regulatory requirements across key markets, including Europe, USA, Russia, Japan, China, Saudi Arabia, and more.

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# **TECHNICAL SPECIFICATIONS**

Device dimensions (length x width x height) [mm]	1850 x 2800 x 2600°
Device weight [kg]	500
Minimum shipping box (length x width x height) [mm]	320x180x180**
Maximum shipping box (length x width x height) [mm]	600x400x400**
Maximum stacking height on the pallet [mm]	1600
Line integration	CP auxiliary unit

Device dimensions for a configuration with anti-slip coating application.

<sup>&</sup>quot;Specifications reflect the standard configuration and can be fully customized to meet specific customer requirements