



Application Kit: **Palletizing**

Automates the stacking of boxes, cartons, or packaged goods onto pallets at the end of a production or packaging line. Reduces repetitive strain injuries, increases palletizing speed, and improves consistency.

IDEAL USE CASES:

- Food & beverage packaging
- Consumer goods fulfillment
- Contract manufacturing & warehousing
- Any facility with repeatable end-of-line pallet stacking tasks

WHAT YOU NEED:

Cobot Arm: Long-reach 6-axis collaborative robot (1300mm+ reach, 10–12kg payload)

End-of-Arm Tool (EOAT): Vacuum gripper with large pad or multi-cup array, designed for box handling

Pallet Station Setup: Defined stacking zone with adjustable guides and position markers

Vision or Sensor System: Box presence detection sensor or 2D vision (optional, for dynamic pickup)

Safety Equipment: Area scanner or light curtain for operator protection in shared workspaces

Interface Kit: Conveyor line integration module (start/stop signals, safety relays)

Programming Software: Palletizing-specific software with pattern builder and drag-and-drop UI

Training & Support: 2 days on-site installation and system tuning + 6 hours remote support

SPECIFICATIONS:

Payload: Up to 12 kg (typical box weight)

Reach: 1300–1750 mm (based on model)

Stacking Height: Up to 2.0 meters (varies by layout)

Repeatability: ±0.05 mm

Cycle Time: 8–15 seconds per box depending on distance and payload

Power Requirements: 110–240V AC

PACKAGING OPTIONS:

Standard: Cobot, vacuum gripper, manual stacking station, basic UI

Plus: Adds presence detection sensor + pallet pattern template software

Premium: Adds mobile base, safety scanner, and conveyor I/O integration

