

Robotic Palletizers and Depalletizers

Robust Design

Heavy-duty construction coupled with intuitive design to manage heavy payloads

Increase Productivity

Enhanced throughput with medium to high-speed palletizers

Continuous Operation

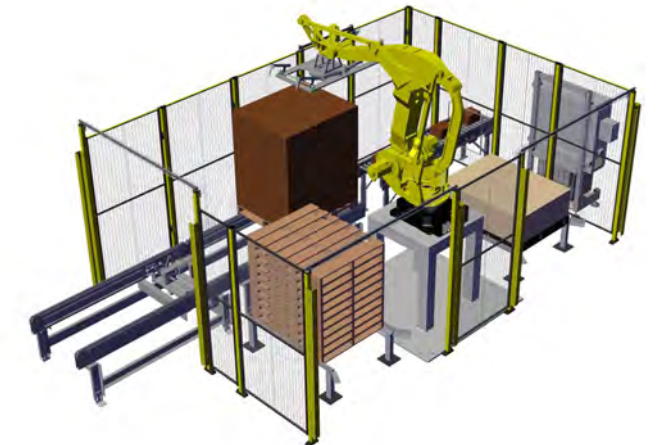
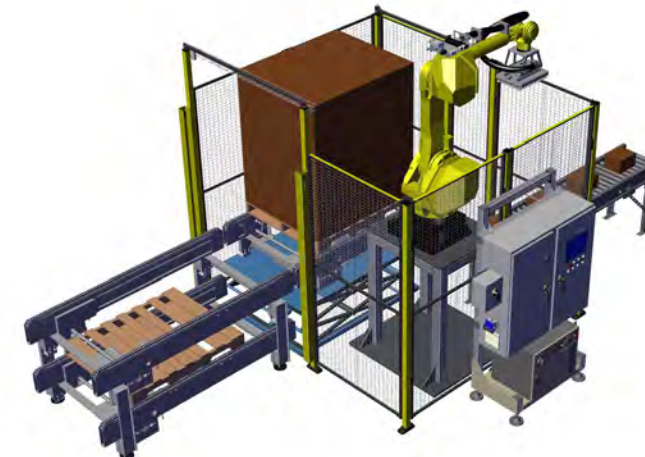
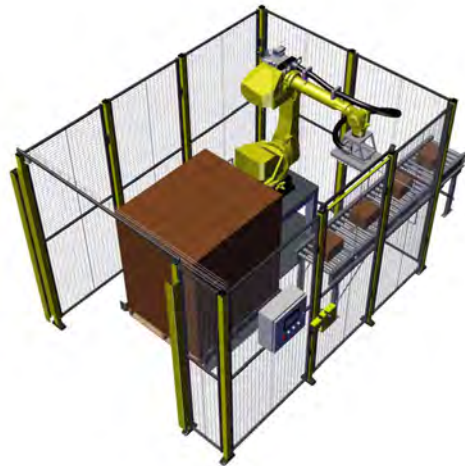
Continuous movements reduce labor costs and improve operational efficiencies

Custom Integration

Systems designed for any application with customized speed, service life, payload, reach, repeatability

Robotic Palletizers and Depalletizers

Essential Line Systems



Essential Compact

Our most compact solution reduces floorspace, offering a single pallet station with manual load/unload functionality.

Speed	Up to 12 cases per minute.
Minimum Case Size	9" (L) x 5" (W) x 6" (H) Up to 40 lbs
Maximum Case Size	17.5" (L) x 15" (W) x 20" (H) Up to 40 lbs
Operation	Robotic
Software	Simply Load, our custom pallet configuration tool, enables users to visualize, edit, implement and manage patterns on the HMI.
Machine Size Range (ft)	10.3 (L) x 7.5 (W) x 8.3 (H)
Controls	Turck* PackML Compliant PanelView Color HMI
Pneumatics	80 psi
Voltage	460 VAC
Disconnect	30 Amps

Essential Dual

Expands your work station to provide continuous operation while maintaining a manual load/unload functionality.

Speed	Up to 12 cases per minute.
Minimum Case Size	9" (L) x 5" (W) x 6" (H) Up to 40 lbs
Maximum Case Size	17.5" (L) x 15" (W) x 20" (H) Up to 40 lbs
Operation	Robotic
Software	Simply Load, our custom pallet configuration tool, enables users to visualize, edit, implement and manage patterns on the HMI.
Machine Size Range (ft)	12 (L) x 8.9 (W) x 7.6 (H)
Controls	Turck* PackML Compliant PanelView Color HMI
Pneumatics	80 psi
Voltage	460 VAC
Disconnect	30 Amps

Essential Over/Under

Offering dual pallet conveyor, this solution provides continuous operations without manual interference.

Speed	Up to 12 cases per minute.
Minimum Case Size	9" (L) x 5" (W) x 6" (H) Up to 40 lbs
Maximum Case Size	17.5" (L) x 15" (W) x 20" (H) Up to 40 lbs
Operation	Robotic
Software	Simply Load, our custom pallet configuration tool, enables users to visualize, edit, implement and manage patterns on the HMI.
Machine Size Range (ft)	15 (L) x 9 (W) x 11 (H)
Controls	Turck* PackML Compliant PanelView Color HMI
Pneumatics	80 psi
Voltage	460 VAC
Disconnect	30 Amps

Essential Pallet Handling

Provides automatic slip sheet handling in addition to the pallet load and discharge functions.

Speed	Up to 12 cases per minute.
Minimum Case Size	9" (L) x 5" (W) x 6" (H) Up to 40 lbs
Maximum Case Size	17.5" (L) x 15" (W) x 20" (H) Up to 40 lbs
Operation	Robotic
Software	Simply Load, our custom pallet configuration tool, enables users to visualize, edit, implement and manage patterns on the HMI.
Machine Size Range (ft)	20 (L) x 11 (W) x 8.5 (H)
Controls	Turck* PackML Compliant PanelView Color HMI
Pneumatics	80 psi
Voltage	460 VAC
Disconnect	30 Amps

* Allen Bradley option available.

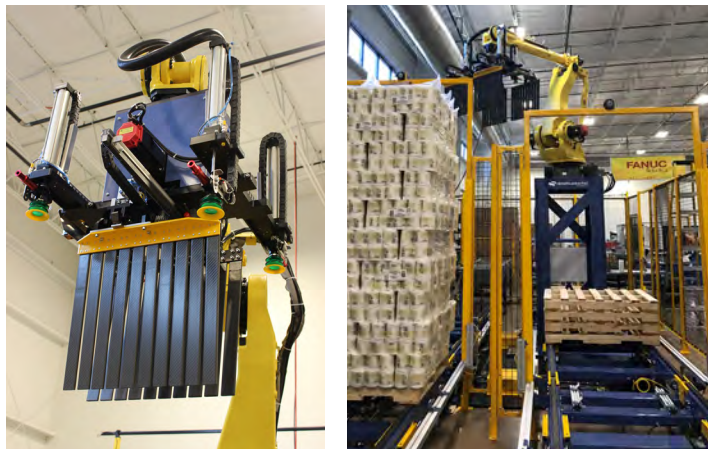
Robotic Palletizers and Depalletizers



Conventional and Collaborative Systems

In addition to our compact, Essential Line, Signode supplies palletizers in both conventional multi-axis as well as force-limiting collaborative varieties with payloads available ranging from .5 kg up to 700 kg depending on project need. All robotic palletizers are available with custom recipes to allow a single cell to handle multiple SKUs with variable stacking patterns.

Both off-the-shelf and custom end-effectors such as vacuum cup grippers, pneumatically controlled grippers, and servo-driven grippers are available to customers depending on product type and pallet loading preference. This large variety of custom tooling paired with sensitive sensors allows for the precise handling of products ranging from pliable toilet paper to heavy boxes of medical devices or computer products.



Signode robotic systems are easily integrated with new or existing material handling lines and other production setups.

- Industrial (Medium-Speed): Integrated robotic palletizer and depalletizer for industrial solutions.
- Multi-Arm (High-Speed): Integrated, multi-arm robotic palletizer and depalletizer.

