



PALLETIZING

STREAMLINE END-OF-LINE-PACKAGING





COMPREHENSIVE PALLETIZING SOLUTIONS BY COMBI

DISCOVER THE FULL SCOPE OF COMBI'S CAPABILITIES

While you may know Combi for our expertise in case erecting, packing, and sealing, many are surprised to learn about our robust palletizing solutions. Extending beyond our core offerings, palletizing is a natural progression in our range of automation services, designed to provide a complete end-to-end packaging solution under one roof.

END THE ERA OF BACK-BREAKING CASE STACKING

Manual palletizing is not only slow but also a major contributor to workplace fatigue and injuries. As an authorized Fanuc integrator, Combi's robotic palletizing solutions revolutionize this final stage of your packaging line by introducing speed and precision while eliminating the ergonomic nightmare of manual stacking. Many customers are pleasantly surprised to learn how affordable a robotic palletizing solution can be.

ROBOTIC PRECISION MEETS FLEXIBLE DEPLOYMENT

Whether part of a fully integrated system or a standalone upgrade, Combi can suggest the appropriate robotic technology for your specific needs:

- ▶ Collaborative Robots: Perfect for operations requiring up to 8 cases per minute, our cobots operate safely alongside humans without extensive guarding, dramatically reducing the system's footprint.
- ▶ Industrial Robots: For higher throughput requirements, our industrial robots provide powerful and rapid palletizing solutions, capable of handling the most demanding production schedules while minimizing floorspace and ensuring safety.

SEAMLESS SYSTEM INTEGRATION

Opting for a Combi palletizing solution within a larger packing line means streamlined management and maintenance, all from a single provider. This integration ensures that all components are perfectly synchronized, optimizing your end-of-line operations and providing a level of oversight and convenience that only comes from having one company responsible for the entire system.

STANDALONE SOLUTIONS: A GATEWAY TO AUTOMATION

If you're not in the market for a full system overhaul, consider the immediate benefits of a Combi standalone palletizing solution. They're an easy fit into your current operations, boosting productivity and improving workplace safety with minimal disruption. Our systems are designed to be easy to operate with many customers able to modify and create new recipes without the help of external resources. These systems underscore our commitment to versatile, scalable solutions, no matter where you are in your automation journey. We want you to grow with us.

PALLETIZING WITH COMBI: STACK THE BENEFITS

At Combi, we are eager to show you the full breadth of what we offer. Beyond case erecting, packing, and sealing, our palletizing solutions reinforce our position as a comprehensive supplier in the packaging industry. Contact us today to discover how Combi can enhance your entire packaging operation, from start to finish, with advanced automation tailored to your needs.

ROBOTIC PALLETIZER FEATURES

- ▶ Robotic palletizing solution is easily moved by forklift to the end of any packing line
- ▶ Can integrate with existing 3M or Combi case sealers
- ▶ Compact footprint (114" x 93" x 100")
- ▶ Min. case range (8" x 6" x 5")
- ▶ Max. case range (24" x 16" x 16")
- ▶ FANUC, integrated TP HMI controls

COLLABORATIVE PALLETIZER FEATURES

- ▶ FANUC collaborative robot (CRX25)
- ▶ Tablet TP HMI touchscreen interface
- ▶ I/O link and CIP compliant communication
- ▶ Multiple gripper options
- ▶ Highly visible LED indicator safety lights
- ▶ Repositionable mobile design
- ▶ Dual-station capability





COLLABORATIVE PALLETIZER SPECIFICATIONS

Case Size	Varies
Pallet Stack	72" stack
Cycle Time	Standard Mode: 5 cpm High Speed Mode: 8 cpm **Rates are weight dependent
Safety	SIL3
EOAT	Coval: CVGC 320x160
Payload	Robot Max Payload 25 KG
PLC and HMI	Compact GuardLogix Tablet TP Interface
Enclosure	24" x 24" x 8"
Sensors	IO Link Sensors
Lights	LED Indicators
Power Supply	240v 1phase
Air Supply	80 psi, 12 SCFM
Dimensions	Ship Position: 60" x 51" x 90" Palletize Position: 60" x 129" x 105"

ROBOTIC PALLETIZER SPECIFICATIONS

Specifications	EZ PAL I (20)	EZ PAL II (60)
Robot	Fanuc M10iD/12	Fanuc M710iC/50
Case Weight Max	16 lbs	60 lbs
EOAT	Vacuum Std/Custom	
Pallet Size Capable: Max	48" x 42" x H	
Case Dimensions: Max	24" x 16" x 16"	
Case Dimensions: Min	8" x 6" x 5"	
Max Stack Height	50"	84"
Max Case Rate	12 CPM	
Footprint	114x93x100	