



for a greener tomorrow



MITSUBISHI SOLUTIONS

Palletizing Machine



TYPICAL USE CASES

Palletizer machines are used at end of line packaging to stack cases for any type of finished product, including:

- Food and beverage
- Pharmaceutical
- Consumer goods
- Electronics

OVERVIEW

Palletizers are usually the final link between product cartoning and shipment. An effective palletizer is required to maximize the efficiencies of upstreamed systems. The iQ-F Series compact PLC controls the palletizing robot, as well as the servo amplifier or variable frequency drive that is moving the conveyor. This creates an efficient solution to move packaged goods to a pallet and adjust for short production runs with fast changeovers. Real-time status and diagnostics are displayed on the user-friendly GT21 Series HMI, which is also monitored remotely.

Palletizing Application Guide

SOLUTION SET

PLC: iQ-F Series

Robot: Large Format RV-F Series
(35, 50, 70kg payloads)

HMI: GT2107

Robot Controller: CR760-D

Conveyor: FR-A800 Series VFD

**CC-Link Interface Card
in Robot:** 2D-TZ576

**CC-Link Interface Card in
PLC Rack:** FX5-CCL-MS

KEY PRODUCT ATTRIBUTES

- Seamless connectivity
- Highly integrated PLC, HMI, robot controls
- Remote monitoring with security
- Long reach (2050 mm)
- Flexible palletizing solution
- Common backplane communication

THE BOTTOM LINE

- Prevent untimely shutdown
 - Enhanced life diagnosis function includes an internal thermal sensor for maintenance supervision
- Streamlined packaging line
 - Machine to machine communication from upstream process
 - Quickly adjust to product changeover
- Reduced operating and support costs
 - Reduce travel and support expenses
 - Reduced MTTR (Mean Time to Repair)
- Flexible solution allows increased throughput
 - Reduced downtime
- Reduced cycle time
 - Multiple boxes can be picked up with a single pick due to the increased payload capacity
- Ability to add seventh axis linear actuator without the need for an external motion controller

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