



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. Using iQ-F Series compact PLC and integrated motion control, synchronized axes efficiently 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

Motion Control: FX5 Simple Motion

HMI: GT21 Series

Servo: MR-JE Series

Network: SSCNETIII/H

X, Y, Z, Rotate: MR-J4 Series

Conveyor: FR-A800 Series

KEY PRODUCT ATTRIBUTES

- Seamless connectivity
- Highly integrated PLC, HMI, motion controls
- Remote monitoring with security
- Adaptive autotuning
- Vibration suppression control

THE BOTTOM LINE

- Reduce maintenance
 - Adjust servo amplifier parameters from HMI
- Prevent untimely shutdown
 - Monitor mechanical degradation
- Full synchronous performance in multi-axis system
 - Highly responsive SSCNET III/H 0.222ms cycle time
 - Complete deterministic and synchronized communication
- Reliable even under changing physical conditions
 - Servo tuning function uses machine learning to adjust dynamically
 - Vibration suppression prevents undesirable oscillating movements of the machine and product
- 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)

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