

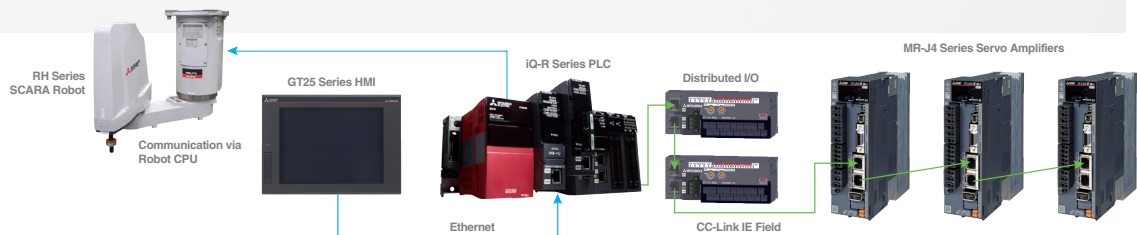
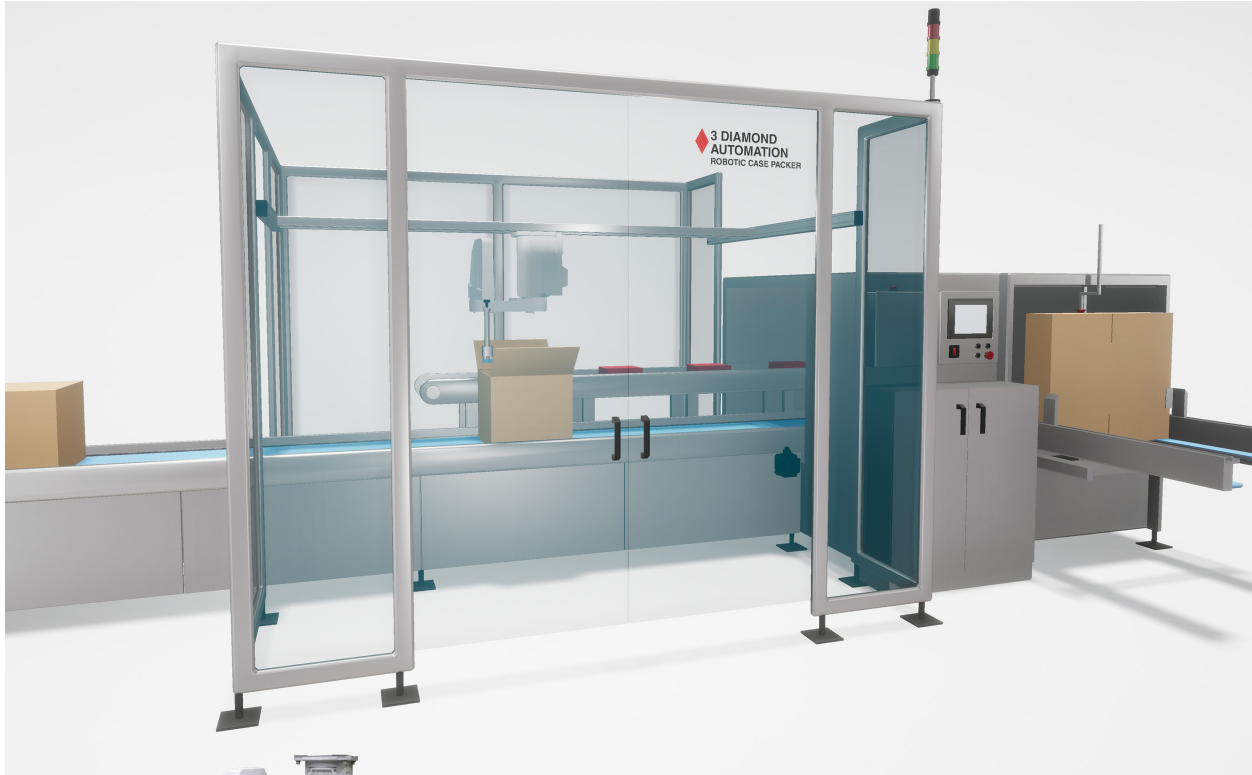


for a greener tomorrow



MITSUBISHI SOLUTIONS

Case Packing – Robotics



TYPICAL USE CASES

Case packing machines can pack products into the following containers:

- Cardboard boxes
- Plastic bags

OVERVIEW

Case packing machines are designed to increase productivity, while time and cost for labor decrease when the manufacturer prepares for distribution. A versatile, high-speed, and rapid-changeover machine is the demanding trend for the packaging industry. Mitsubishi Electric offers an advanced solution to adapt state-of-the-art technology that improves OEE, from high performance servos to robotic integration. As a worldwide automation leader, Mitsubishi Electric's Pak/iQ solution helps machine builders who are looking for an integrated system that includes PLC, servos, VFDs and robots in ONE industrial Ethernet-based network.

Case Packing – Robotics

SOLUTION SET

Positioning Module: RD75P4

Servo Amplifier: MR-J4 Series (MR-J4-B)

Servomotor: HG-JR

PLC: iQ-R Series (R04CPU)

Graphic Operation Terminal: GT25 Series

High-speed Counter Module: RD62PRE

MES Interface IT Module: RD81MES96

SCARA Robot: RH Series (RH1FRHR)

Robot Controller: CR800-R

Robot CPU: 4F-R16RTCPU

KEY PRODUCT ATTRIBUTES

- Vibration Suppression Control I&II
- Safety over CC-Link IE Field
- Seamless connectivity
- Highly integrated PLC, HMI, motion, and robot controls
- Remote monitoring with security
- MELFA SafePlus protects against workplace injury

THE BOTTOM LINE

- Compatible integration of machine with robotics
 - One vendor solution for integrated system
 - Simple implementation saves development time
 - Seamless control for better consistency and reliability
- Reduce development time
 - Pre-designed HMI screens monitor servo amplifier alarms
 - Integrated PLC and motion programming
- Prevent untimely shutdown
 - Monitor mechanical degradation
 - Backup/restore PLC program, VFD and servo parameters from HMI
 - Remotely check machine status while machine is operating
- Quick changeover
 - Touchscreen recipe control
- Industry-leading motion and servo features
 - Advanced servo tuning function for optimized mechanism performance
 - Vibration Suppression Control ensures productivity
 - Synchronization with high speed and accurate position
- Fully integrated PLC and motion control network
 - Deterministic 1Gbps network
- MELFA SafePlus feature protects against workplace injury
 - Integrated safety ensures reliable protection of workers and equipment
 - Safety over network meets Category 4 Ple, SIL3 standard. Safety functions are available with safety PLC, such as SS1, SS2, SBC, SOS, SLS, SSM
- Comply with reporting regulations
 - Transfer data to upper level IT network
- Reduced operating and support costs
 - Reduce travel and support expenses
 - Reduced MTTR (Mean Time to Repair)

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