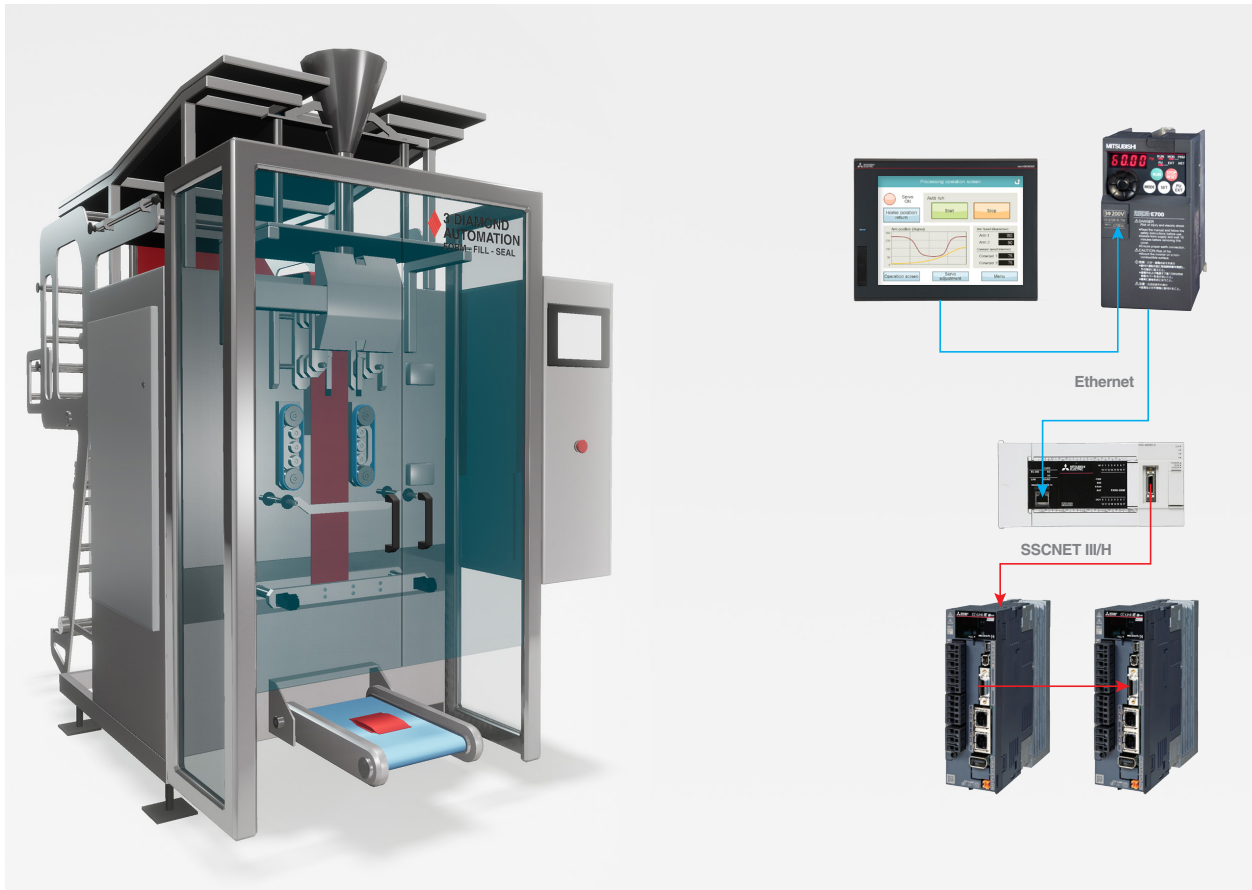




for a greener tomorrow

# APPLICATION SOLUTIONS

## Vertical/Horizontal Form Fill Seal Machine



### TYPICAL USE CASES

Case packing machines can pack products into the following containers:

- Dry food bag packaging
- Powder packaging
- Liquids packaging

### OVERVIEW

Form, fill, and seal is a common system for packaging both liquid and solid goods. Both intermittent and continuous machine types require high productivity, low downtime, and flexibility for various production requirements. Mitsubishi Electric's Pak/iQ solutions are dedicated to offering engineering efficient design environments, reliable machine performance, and system analytics management. The low cost iQ-F compact controller solution provides powerful technology for OEMs that are challenged to be more competitive in the modern packaging world.

# Vertical/Horizontal Form Fill Seal Machine

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## SOLUTION SET

**PLC:** iQ-F Series

**Motion Controller:** FX5 Simple Motion

**HMI:** GT25 Series

**Network:** SSCNETIII/H

**Servo:** MR-JE Series

**Conveyor Drive:** FR-E700 Series

**Film Roller:** MR-JE-BF Series

**Seal and Cut:** MR-JE-BF Series

**Feeder:** MR-JE-BF Series

## KEY PRODUCT ATTRIBUTES

- Camming autogeneration function blocks
- Easy advanced synchronization control setting
- Full synchronous performance in multi-axis systems with a compact PLC
- Seamless connectivity
- Highly integrated PLC, HMI, and motion controls
- Secure remote monitoring

## THE BOTTOM LINE

- Full synchronous performance in a multi-axis system with a compact PLC
  - Suitable for continuous motion machines
  - SSCNET III/H high response as fast as 0.222ms
  - Complete deterministic and synchronized communication
  - Software based advanced synchronized control for easy setup of parameters for shafts, clutches, gears, etc.
- Less development time with increased productivity and high-quality output
  - iQ-Monozukuri Packaging saves engineering time with cam auto-generation function blocks, sample programs, and sample screens
  - One software design environment
- Less maintenance time
  - Real-time machine analysis
  - Predictive maintenance function
  - Adjust servo amplifier parameters from HMI
- Prevent untimely shutdown
  - Monitor mechanical degradation
  - Backup/restore PLC program from HMI
  - Remotely check machine status while machine is operating
- Handle multiple products and package formats
  - Touchscreen recipe control
  - Rapid changeover
- 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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