Vision Guided Picking & Placing, and Robotic Sorting, Feeding & Loading

Combining Farason’s FaraFeeder, ButchFeeder or CrankFeeder part recirculating systems with robot and vision guidance results in a highly flexible component sorting, feeding, and placing system, accommodating components that are difficult or impossible to handle by conventional bowl style systems.

- No guides or qualifiers; parts flow freely. Eliminates:
  - Edges and surfaces that can mar delicate product.
  - Obstacles susceptible to collecting parts and jamming product flow.
  - The usual finesse and fine tuning after change-over.
- Tool-less end effectors for quick, simple 15 second change-over.
- Backlogging of parts in a queue is usually unnecessary.
- Product can be placed directly into target location.
- For future products, simply teach the vision parameters and possibly change the end effector.
- Best usage is to handle difficult-to-sort products and/or when you need to handle a wide variety of shapes and sizes in a single sorting & feeding system.

Farason has picked, placed, sorted, fed and/or loaded all the products shown here.
Robotic and Non-Robotic Assembly Machines and Systems

Farason utilizes processes best suited for your specific application by applying the appropriate operations and functions to a solid base carrier foundation. A wide variety of standardized systems and configurations are available to meet each unique set of customer parameters. Machines can be singular multi-functional systems or a series of modular cells, performing one or more functions each, to combine your components or products together into a complete assembly, package or kit. Robots are utilized judiciously while optimizing their multi-task capability and maneuverability.

### Example Base Foundations
- In line or rotary intermittent motion
- In line or rotary continuous motion
- Walking beam
- Free floating pucks, boats, or pallets & conveyors
- Pallets & over/under conveyors
- Over/under fixtured chain intermittent motion
- Over/under fixtured chain continuous motion

### Example Operations
- Latch/unlatch  
- Dispense glue
- Press/snap/punch  
- Cut
- Heat/cool  
- Ultrasonic weld
- Screw thread  
- Clean
- Orient  
- Sort & feed
- Heat seal  
- Erect/fold/tuck
- Vision inspection  
- Print & apply label

Wide variety of systems and operations available

Farason’s business in the Medical Device, Pharmaceutical, and Biotechnology industries is growing exponentially as we continue to expose potential customers to our varied experiences and capabilities from other industries. In particular, our usage of robotics to handle and assemble products and packages in lieu of conventional, inflexible, hard automation provides manufacturers the competitive advantages they require to compete in today’s global market.
Robotic Material Handling

Transferring your products from one place to another, individually or in groups, is ideally suited for robotic cells equipped with the necessary ancillary operations and reliable, innovative end of arm tooling.

Replace difficult, inefficient, health-hazardous, costly operations with Farason robotic cells to handle items such as:

- Small and large individual components
- Completed assemblies and packages – finished goods
- Odd shaped flexible and rigid products, components and packages
- Cartons, boxes, shippers, cases and related dunnage

The nature of Farason's business inherently allows for easy transition between numerous industries. Our depth of experience and understanding of each unique industry enables Farason to provide our customers with industry-specific equipment. Additionally, Farason customers benefit from a broad spectrum of automation ideas, a direct result of our cross-industry work.
Pick, place, fold, heat seal, unload & stack

Custom Machines

Farason specializes in the design and build of custom machinery and systems to perform assembly, manufacturing and packaging processes. We build machines with each customer’s specified components to their equipment standards, while also complying with industry-specific regulatory standards. Our experience spans numerous industries and project scopes.

Turnkey Systems

Farason offers complete turnkey responsibility for integration of our equipment with a wide variety of machines at Farason or on-site. This includes complete system responsibility when the balance between Farason equipment and integrated OEM machinery makes sense for Farason to take the primary role. OEM equipment can be purchased by Farason or the end user.

Unwind film rolls, seal, cool, cut patterns & stack

Unload tray, fill, cap, label & bag
Farason integrates the following robots:

ABB, Adept, FANUC, IAI, YAMAHA

Farason integrates the following vision systems:

Banner, Cognex, Keyence, PPT Vision, Seidenader, Siemens

Farason integrates the following components and more:

Allen-Bradley, CTC, Emerson, Brother, Festo, Strongarm, Oriental Motor, Omron, Bison, Turck, Phd, Sick, SMC, Siemens, Schunk, Maple Systems

Visit www.farason.com to see more than 50 videos of our machines in action.