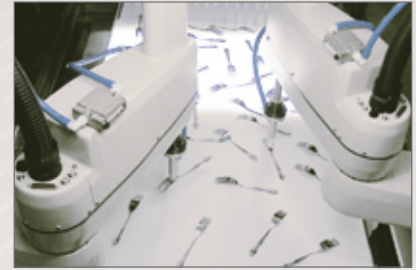


# Conceive, Design & Build

## Flexible Automation Machines & Systems

Visit [www.farason.com](http://www.farason.com) for more

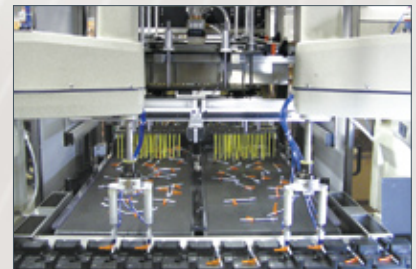
Flexible sorting, feeding and placing. Combining Farason's FaraFeeder or Adept's FlexFeeder recirculating conveyor system with robot and vision guidance. This results in highly flexible sorting, feeding and placing systems to accommodate components which are difficult, or impossible, to handle by conventional bowl style systems.



Example: silverware



Example: toothbrushes



Application: syringes

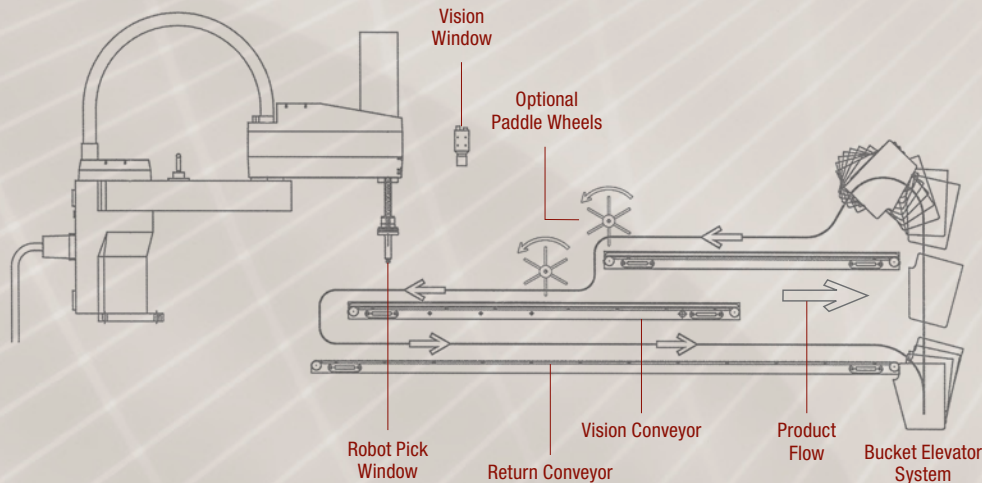


Adept's Cobra and FlexFeeder



Farason's dual-lane FaraFeeder

### Flexible Feeding System



- No guides or qualifiers, parts flow freely
- Eliminates edges and surfaces that can mar delicate product
- Eliminates obstacles susceptible to collecting parts and jamming product flow
- Eliminates the usual finesse and fine tuning after change-over
- Tool-less end effectors for quick, simple 15 second change over
- Sort and place a diverse variety of product shapes and sizes in a single unit
- Backlogging of parts in a queue is usually unnecessary (sometimes a potential source of jams with odd shaped product)
- Additionally, products can be placed directly into target location (such as a pallet, tooling fixture, cartoner, HFFS, pouch, tray, wrapper or blister)
- 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 and feeding system
- FaraFeeders are sized to suit application

### Sample Robotic Cell & Custom Automation Systems

- Sorting/feeding/inserting/loading components/containers into intermittent or continuous motion cartoning, wrapping, pouching, bagging or blistering machines
- Single filing of components from a collated matrix
- Retooling, Rebuilding, Redesigning, Reprogramming and/or Upgrading controls of existing machinery
- Combine/Converge/Collate/Divide – Denest/Unstack
- Turnkey “Custom” Systems including integration responsibility of ancillary equipment
- Material or component handling systems coupled with other types of packaging machinery (i.e. vision systems, label applicators, non-contact coders/printers)

## Conceive, Design & Build Flexible Automation Machines & Systems

**Focus 1: Robot and vision integration with Farason work cells and systems performing material handling operations for assembly, manufacturing, and packaging processes.**



**adept**



**ABB**



**FANUC**  
robotics

Farason has implemented the robust, reliable Adept robots and AIM software for many years, along with their integrated AdeptVision AVI Guidance systems. We also utilize ABB robots and PickMaster™ software with integrated Cognex vision systems. Chosen predominantly for high speed, continuous motion-guided applications, brand selection is often driven by application or customer specification.



**IAI**



**YAMAHA**

IAI and Yamaha manufacture durable, accurate, and economical robots in a broad range of sizes – ideal for multiple function cells requiring high payload, cost-effective, pick and place capability. Farason leverages these strengths to provide our customers the best product at an affordable price. IAI and Yamaha offer a variety of programmable modules and exclusive pick and place devices.

**KEYENCE**

**BANNER**

**PPT VISION**

**COGNEX**

Cognex, Banner, Keyence, and PPT Vision, along with a few other vision systems, can be incorporated within Farason systems to inspect product characteristics for quality determinants such as aesthetic appearance and orientation. They can also verify part tolerance compliance and evaluate assembly alignment.

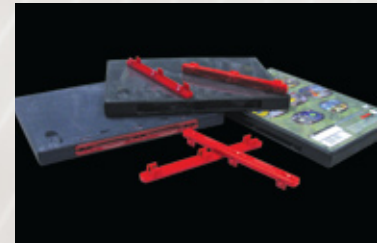
**Focus 2: Design and build of custom machinery and systems which perform operations for assembly, manufacturing, and packaging processes. Our equipment is designed and built in compliance with each customer's project requirements and individual machine standards.**

Willingness to successfully attempt and solve odd, unique automation challenges with innovative and creative solutions is the hallmark of Farason's reputation. Our strength lies in the depth of talented and experienced people we have on our technical team.

Many Farason employees have over 25 years technical experience, and are proficient at designing and building a variety of non-robotic automation machines. Several team members are multi-disciplinarians with backgrounds in mechanical and electrical design and build, along with programming debugging and testing. Farason leverages this wealth of knowledge and hands-on talent to create automation machines and systems that suit each customer's anomalous situation.



Tablet tube fill plug cap label



DVD security clip sort & insert



Medical test kit envelope assembly



Bakery pie & cake packaging

### Sample Robotic Cell & Custom Automation Systems

- Continuous or intermittent motion vision acquisition and vision placement systems
- Flexible sorting, orienting and feeding systems utilizing robot and vision technology
- Sorting, feeding and assembling components into a complete unit/package
- Intermittent and Continuous Motion, Modular, Rotary Dial and In-Line Assembly Systems (including filling, capping, labeling, coding, gluing, pressing, welding, screwing, soldering, forming and inspection)
- Automatic Orienting, Collating and Stacking systems
- Case, Tray, and Puck loading/unloading