

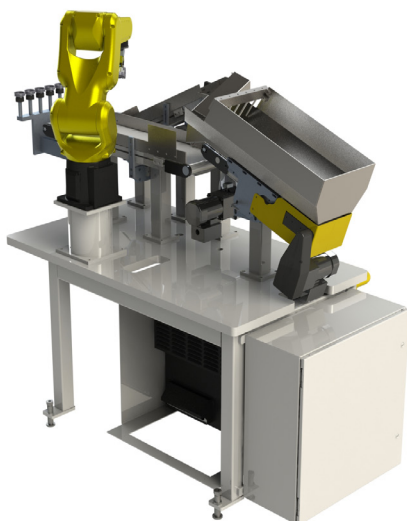
# ACEflexfeeder Automation

## OVERVIEW

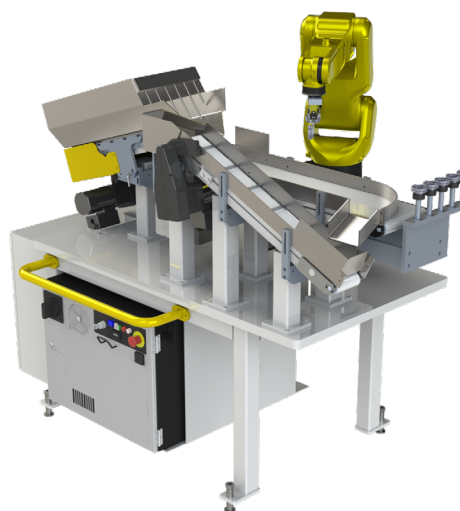
The standard ACEflexfeeder Automation platform is one of the most flexible, cost effective part feed systems for multiple part variants.

## System Advantages

- Ultimate part feed flexibility!
- Can run single or multiple part variants.
- Accommodates a wide range of part sizes and shapes.
- Can include one robot for one, two, three or four flex feeders.
- Belt infeed conveyor width & length can vary depending on application requirements.
- Belt color options available to change background for robust vision camera system for part pick-up.
- Application specific vision camera & lighting.
- Robot EOAT options include gripper, vacuum or magnetic.
- Angled return conveyor to re-circulate parts.
- Parts tumble twice through return conveyor to allow part to change pick-up orientation.
- Hopper size can vary as needed to increase parts buffer.
- Controls system includes Robot Controller or PLC, HMI & Ethernet IP communications.



*ACEflexfeeder Backside View*



*ACEflexfeeder Frontside View*

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# ACEflexfeeder Automation

## TECHNICAL SPECIFICATIONS

### Part Feed System

- Run Single or Multiple Part Variants
- Accommodates a Wide Range of Part Sizes & Shapes
- Hopper Options
  - + Varying Sizes Available to Increase Part Buffer
  - + Part Separation Tooling Fingers
  - + Part Stack Elimination Tooling
  - + Belt Driven or Vibratory Options
- Infeed Conveyor Options
  - + Varying Width & Lengths
  - + Varying Belt Colors to Facilitate Vision Camera
  - + Side Guide Rails
  - + Transition Gravity Chute to Return Conveyor
- Return Conveyor Options
  - + Angled to Re-Circulate Parts
  - + Varying Width & Lengths
  - + Cleated & Flat Belts Available
  - + Side Guide Rails
  - + Transition Gravity Chute to and from Return Conveyor Allows Parts to Tumble & Change Part Orientation
- Welded Frame and Legset

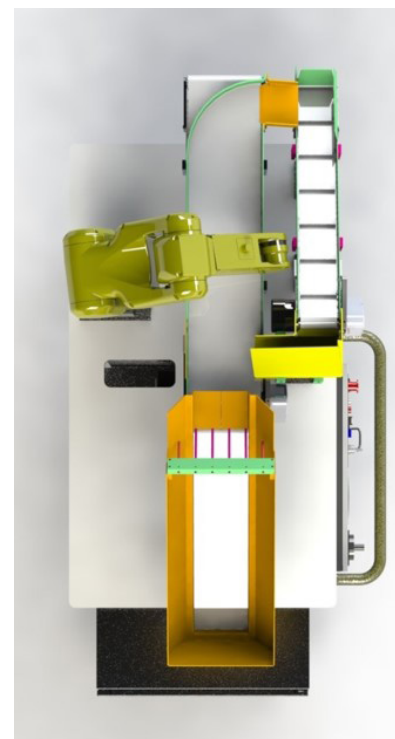
### Robot & Vision

- ACEflexfeeder Includes One Robot for One Flex Feeder OR One Robot for Two, Three or Four Flex Feeders
  - + Alternate Configurations Available Upon Request
- Robot End-of-Arm-Tools
  - + Gripper, Vacuum or Magnetic
  - + Single or Multiple Part Pick-Up
  - + Automatic Changeover Tools Available
- Vision Camera & Lighting
  - + Application Dependent & Will be Prototyped
  - + Cameras Available: Cognex, Keyence, Fanuc IR-Vision and Dalsa Vision
  - + Front Light, Backlight, Ring Light, etc Available
  - + Light Shrouds and Guarding Available as Requested
  - + Mounting Stand Included
- Micro-Buffer Fixture Plate(s) Used Based on Application
- Safety Guarding Available Upon Request

### Controls System

- Robot Controller with Teach Pendant or Allen Bradley or Siemens PLC & HMI
- Ethernet IP Communication
- Data Collection and/or Traceability Options Available

#### Top View



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