



ABB FLEXLOADERS



MACHINE TOOL TENDING SOLUTIONS



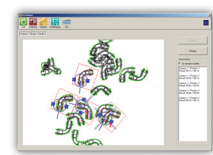
ABB's FlexLoaders are proven function packages that have simplified the transition from manual to robotic machine tool tending. These pre-engineered designs are easy to integrate, thus saving valuable time and money while offering a versatile array of options to meet application needs. As vision-guided robot systems, FlexLoaders offer high accuracy and advanced features that are user friendly and easily maintained.

FlexLoader Vision *Accurate Robot Guiding*



The camera identifies the component's location, positioning and orientation, and informs the robot which picks up and maneuvers the part with perfect precision.

- Simple and intuitive user interface
- Preprogrammed and ready to use
- Can handle an unlimited number of components





FlexLoader FP 100
Compact / Small Batches

- Flexible feeding for small components
- Replaces traditional bowl feeders; can handle many different components
- Easy to build into assembly cells

Component Size: 0.2 - 1.5 in / 5 - 40 mm
Max Component Weight: 0.2 lbs / 0.1 kg



FlexLoader FP 300
Small Components / Short Cycle Times

- A compact feeder for small to medium-sized components
- Built on a single baseplate; easy to install
- Very suitable for castings

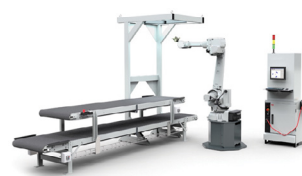
Component Size: 0.2 - 4.7 in / 5 - 120 mm
Max Component Weight: 2.2 lbs / 1 kg



FlexLoader FP 400
Large Components / Short Cycle Times

- Fully automated, from pallet to machine tending
- Perfect for unsorted parts
- Long, unattended running time

Component Size: 0.4 - 9.8 in / 10 - 250 mm
Max Component Weight: 6.6 lbs / 3 kg



FlexLoader FP 600
Highly Flexible / Expandable

- Automates one to three machines
- Highly flexible and expandable
- Handles complex and fragile components in all geometric shapes

Component Size: 3 - 30 in / 76 - 760 mm
Max Belt Load Customizable



FlexLoader FP 800
Straight from the Pallet / All Sizes

- Compact bin picking solution with smart 2D or 3D vision technology
- Can pick parts with a determined pattern and also layers between parts
- Suitable for heavy components

Can handle a great variety of component sizes and weights



FlexLoader FP 850
Pipes or Tubes from Pallet

- Can automate up to three machines
- Suitable for tubular shapes
- Requires less hardware; is guided by a laser sensor at the gripping tool

Tube Length: 10 - 200 in / 250 - 5000 mm
Max Diameter: 20 in / 500 mm



Two Doors / Conveyor

FlexLoader SC 3000
Prepackaged / Ready to Use

- Automates one or two machines
- Choose from two feeding solutions; drawers or conveyor belts
- One-day installation

Max Component Height: 8.7 in / 220 mm
Max Belt Load: 220 lbs / 100 kg
Belt Width: 15.8 in / 400 mm



Two Doors / Drawers



FlexLoader SC 6000
High Capacity / Plug & Play Options

- Can be customized with up to six post-tending processes
- Very user friendly to operate and set up for new components
- One-day installation

Max Component Height: 10.6 in / 270 mm
Max Belt Load: 1102 lbs / 500 kg
Belt Width: 31.5 in / 800 mm