High speed pick and place robots take product from one location to another with pin point accuracy. Human pick and place applications require repetitive motion over a long duration resulting in possible ergonomic issues. High speed pick and place robots can provide increased efficiency and decreased costs and ergonomic issues.

High speed pick and place robots can be mounted on a stand to allow the robots to access their entire working envelope. Product will enter the robotic work envelope after its orientation has been identified by an upstream vision system. Using a custom end of arm tool, the product will be picked and placed by the robot at the desired location. Product can pass/fail inspection based on customer defined specifications for length, straightness, shape, etc.

benefits

- Automates to processes that involve fast-moving conveyor
- Provides extremely high speed output
- Eliminates fixtures therefore reducing cost
- 3D and 2D vision is flexible and easy to adapt
- Increased productivity and product quality
- Meets RIA and ANSI safety requirements

industries

- Food & Beverage
- Life Sciences
- Packaged Goods
- Electronics
specifications

- Throughput can reach up to 200 products per minute
- Vision can identify 100 or more products on the moving conveyor per second
- High picking accuracy and tool compensation can bring placement error down to 0 mm
- Vision sensor and accessories are stationary-mounted
- Robotic system interfaces with PC or PLC

applications

- Assembly - robot can rapidly pick parts from incoming conveyor and assemble them onto work pieces carried by an outgoing conveyor with high precision
- Inspection and Quality Control - robot visually inspects and picks out defective products on a fast moving conveyor
- Packaging - vision spots products spread out on a moving conveyor and then the robot transfers them into packaging containers at high speed
- Sortation - robot instantaneously picks and separates different types of parts passing through its vision domain

Interested in implementing high speed pick and place robotics in your facility or simply want to know more about it? Please contact us today for additional information.