



Quest is a leading manufacturer of industrial automation equipment focusing on robotics and vision-guidance serving food, beverage, dairy, and other industries needing to optimize floor space, expand operations with accuracy and consistency, and improve overall production line flexibility and efficiency. Quest offers application-specific software products on their robotic products, including pick and place, case packing, and palletizing systems, to simplify system setup and streamline configurability.

We are an award-winning FANUC Authorized System Integrator and Certified Vision Specialist, and our systems are capable of direct food contact with USDA compliant and wash down designs. The diverse knowledge base of Quest engineers and programmers encompasses the entire manufacturing robotics process, allowing us to solve nearly any customer challenge with the appropriate level of robotic automation.

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# QUIK PICK

## ROBOTIC PICK & PLACE SOLUTION

R&E

ROBOTICS & END OF LINE

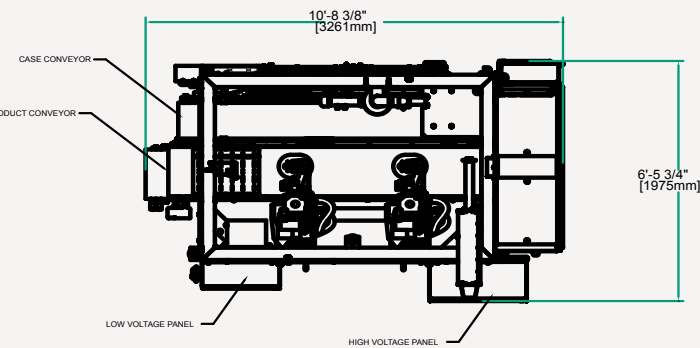
# QUIK PICK

ROBOTIC PICK & PLACE SOLUTION

## The Quest Quik Pick is a versatile robotic pick and place solution.

The Quik Pick can be configured for direct food handling applications or as a robotic top load case packing solution optimized for flexible packaging but can be used to pack a wide variety of packaging types. It is capable of loading both horizontal and vertical pack patterns within the same cell and limited changeover. The Quik Pick uses the FANUC vision system to identify, locate and track incoming products on the conveyor eliminating the need for complex infeed systems and minimizes changeover downtime.

Quest has engineered the Quik Pick solution with QPick dynamic case packing software, IQ Lighting, and Behavior Operator Track System (BOTS) so operators can easily interact with the machine as well as identify ways to improve their interactions.



**QPick** – Dynamic case packing software, designed for users to create Pack Patterns for current and future products.

**BOTS** – Behavioral Operator Tracking System. This system is designed to track the overall performance of the operator, tracking their interaction and use of the cell. This can be used to identify areas of improvement for the operator through training or areas of improvement for the operators interfacing.

**Optional Automated Side Drive Adjustment** - This system will adjust the side drive assembly width to accommodate changing corrugate widths. The width dimension is adjusted by calculating a moving average of the widths of the previous 5 cases.

### THE QUEST DIFFERENCE

- Quest works to understand your existing process and utilizes their knowledge of automation to automate your process, not the other way around.
- Quest has a long history with the food and produce industry and knows how to integrate automation best practices into FDA or FDA Dairy standards.
- Quest understands that the “pick” is the most difficult and critical part of the process and will work to use end of arm tooling that optimizes the process, even if that means engineering something new.
- Quest integrates FANUC robots as the standard and maintains a close direct relationship with FANUC to ensure they are on the leading edge of robotic automation.

**Low/High Voltage Cabinets** – High and low voltage are split into separate cabinets. The split allows for access to low voltage cabinet without the need for high voltage precautions including arc flash training, gear and personnel.

**IQ Lighting** – Our IQ Lighting system has been a proven intelligent feedback system for informing the operator of the true status of just not the system but what with in a cell is needing attention or what status it is in. Our multicolor LED feedback system has lights dedicated per robot and also one for the indication of conveyors and product. These lights are mounted above the corresponding piece of equipment and will highlight that equipment with the appropriate status color. Depending on what light color is on and highlighting the equipment tells the operator instantly by this visual cue, the status of each area.



The FANUC Vision System will identify, locate, and track incoming products on the product conveyor.

## Application-Based Configurations

The Quik Pick design has intelligence that responds to the unique geometry of your product and flexibility to fit within your production line. Quest Quik Pick standard footprints contain 1, 2 or 3 robots with either articulated, scara or delta robots to meet speed, space and budget requirements.

### Quik Pick Series

#### QP100 ROBOTIC PICK & PLACE

##### Primary Packaging & Direct Food Handling

Pick and place solutions for direct food handling that can load, orientate, stack and group products into a wide variety of primary packaging machines such as thermoformers, flow wrappers, and vacuum sealers. The QP100 can grip hard-to-handle products, such as poultry, meats and cheese, as well as virtually any other product shape.



#### QP200 ROBOTIC CASE PACKERS

##### Secondary Packaging & Robotic Top Load Case/Carton Packers

Robotic top load case packers that are optimized for products in flexible packaging. The QP200 can be configured to pack product in vertical or horizontal pack patterns within the same cell with limited changeover and handle a large variety of SKUs maximizing cell versatility.



### TYPICAL PRODUCT SPECIFICATIONS

<b>Speed</b>	Up to 750 products / min
<b>Construction</b>	Mild or stainless steel formed with welded construction
<b>Base Footprint</b>	128" X 56", varies with application
<b>Finish</b>	Powder coat, stainless, polished, matte, FDA compliant. Other finishes available upon request.
<b>Air Requirements</b>	80-100 PSI Dry Oil Free Air @ 30 SCFM Per Equipment

<b>PLC</b>	Allen-Bradley
<b>Electrical Standards</b>	NEMA 12, NEMA 4X
<b>Robot</b>	FANUC model is application dependent
<b>Safety Circuit</b>	CAT 3
<b>HMI Display</b>	10" Color Touchscreen
<b>Power - Typical</b>	480 VAC/60 Hz/3 Ph Other custom options available