Motion Controls Robotics offers robotic picking and packing systems that are flexible, precise, programmable, and portable. Robots in picking and packing applications increase throughput and production through the gained benefits of advanced vision technology and cost savings.

In the manufacturing environment, multiple product changeovers can happen daily. Robotic pick and pack applications can easily accommodate this by providing interchangeable tooling and multiple product recipes easily selected through a user-interface on the iPendant or a PC.

FANUC America offers a variety of robots for picking and packing applications. Picking and packing robots have a variety of reach and payload options to accommodate each process.

FANUC offers useful software technologies for specializing and perfecting the robotic pick and pack application. Advances in vision sensor technology and integration allow FANUC’s iR Vision option for less expense with 100% quality testing, higher picking rates, picking from a moving conveyor belt, identification of part orientation, and many other beneficial functions.

**Reasons for implementing robots for picking and packing operations:**

- **Efficiency** – performs tasks that are difficult for humans
- **Safety** – removes the risk of repetitive motion injuries for employees
- **Compliance with regulations** – verify lot and expiration dates; serialization numbers
- **Flexibility** – meet retail packaging variations including variable pack counts, variety packs, and retail ready packages
- **Cost savings** – reduce floor space and increase throughput

"Motion Controls Robotics has been a robotic integrator of choice for our company for years. In our facility alone, they have perfectly executed 7 automation projects helping us become leaner and more efficient. They work very closely with us from the initial concept to the final implementation of the project. When we talk about robotic automation for new projects - we look no further than Motion Controls Robotics."

~ Account Manager Plastic Manufacturer

<table>
<thead>
<tr>
<th>FANUC Robots</th>
<th>payload</th>
<th>reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>M710 series</td>
<td>up to 70 KG</td>
<td>up to 3123 mm</td>
</tr>
<tr>
<td>LR Mate series</td>
<td>up to 7 KG</td>
<td>up to 911 mm</td>
</tr>
<tr>
<td>M20 series</td>
<td>up to 35 KG</td>
<td>up to 2009 mm</td>
</tr>
<tr>
<td>Delta series</td>
<td>.5 to 12 KG</td>
<td>up to 1350 mm</td>
</tr>
</tbody>
</table>

* Chart includes commonly used robots. Contact MCRI for the full range of hundreds of FANUC robots available for all your picking and packing needs.
Benefits of Robotic Picking & Packing

**Portable**
- Cells are equipped with fork pockets or casters for easy relocation to any packaging line
- Automatic tool changeover

**Upgradeable**
- In-feed conveyor can attach to automated case erector
- Completed cases can be conveyed to automated case sealers for taping

**Reduce costs**
- Labor savings and a reduction in worker compensation costs
- Reduce floor space requirements

**Flexible and precise**
- Handle multiple product sizes
- Standard corrugated and plastic/film lined cases
- Precise, 6-axis servo-controlled system
- Adjust pick and place positions on-the-fly
- 200+ stored part recipes of part description, pick/place locations and stack patterns

Adding automatic case counting to a new robotic system or integrating it into a current system allows the collection of real time production data from the manufacturing floor. Full cases are scanned as they exit production and move to a centralized palletizing, warehousing, order filling, or shipping area.

**Implementing Case Counting:**
- Highly reliable Cognex vision hardware and software are easy to setup and install
- Cameras read barcode data from existing barcode labels
- Data ties into your existing plant or corporate level work-in-process and production databases
- Simple to modify or relocate as production requires

**Case Counting – Integrated Barcode Readers**

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Keeping Manufacturers Competitive with Quality Robotic Solutions

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