



Application - Robotic Picking & Packing

Case erecting | Product pick | Product pack | Case counting | Case sealing

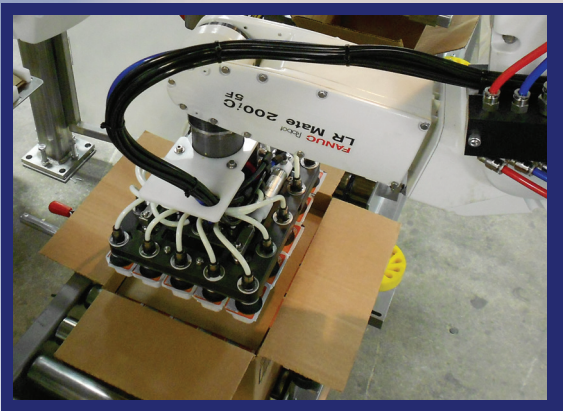
Level 4 Certified Servicing Integrator

We provide innovative robotic solutions from concept to install and 24/7 service and support for complete customer satisfaction.



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.



Picking & Packing Robots

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.

"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

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



Robotic Picking & Packing

FANUC Robots	payload	reach
M710 series	up to 70 KG	up to 3123 mm
LR Mate series	up to 7 KG	up to 911 mm
M20 series	up to 35 KG	up to 2009 mm
Delta series	.5 to 12 KG	up to 1350 mm

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



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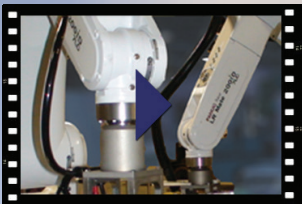
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Case Counting – Integrated Barcode Readers



Watch Videos

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Layered Case Packing



Bag Case Packing



Flexible Packaging
Pick Pack Pal



Bottle Case Packing

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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



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

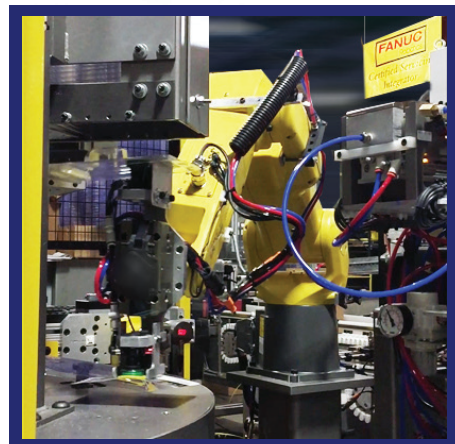
- In-feed conveyor can attach to automated case erector
- Completed cases can be conveyed to automated case sealers for taping

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



Keeping Manufacturers Competitive with Quality Robotic Solutions

Robotic Picking & Packing