



Application - Robotic Roll Handling

Palletizing | Packaging | Labeling | Core & Shaft Handling

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, Inc. is leading supplier of reliable roll handling and packaging systems to paper, flexible packaging, nonwovens, and tissue customers. From large parent (master) roll handling to individual slit roll palletizing and packaging, MCRI has a robotic solution for a wide range of projects.

A well designed robotic work cell can provide the flexibility necessary to handle and process a wider range of products and is upgradeable for future needs. Achieving Level 4 Certified Servicing Integrator status from FANUC America robots provides MCRI with the widest range of four and six axis robots in the world, and ensures our customers an unsurpassed level of support, both before and after the sale.

"Our robotic system is much smoother than when we were manually moving the rolls. This is a much more efficient system, and we would never go back to manual. With an automated process, we can manage many things at one time and we have fewer mistakes and less scrap."

~ Manufacturing Engineer
Roll Handling Customer

Applications

Roll Handling – We have a variety of processes for handling and/or palletizing master, parent, or slit rolls.

Shaft Handling – Time saving automation that can load and unload rolls and shafts together.

Core Loading & Positioning – Robots load and position cores on cantilevered turret winders.

Roll Wrapping & Packaging – Inline automation of horizontal and vertical wrapping of parent rolls and slit roll bundles.

Roll & Package Labeling – Flexible labeling options are available through the integration of vision and print & apply technologies. This includes OD and ID labeling and post stretch wrapping operations.

Complete System Integration - Integrate robots into your current processes including roll unloading, sorting wrapping, conveying, and data tracking.

Roll Handling Robots

FANUC robots have industry leading software and vision options available to increase your system's flexibility and fine tune your processes. We can design your robot cell with future needs in mind, so your robots are reusable and re-deployable if there are product changes. Six axis robots are typically selected for roll handling applications.



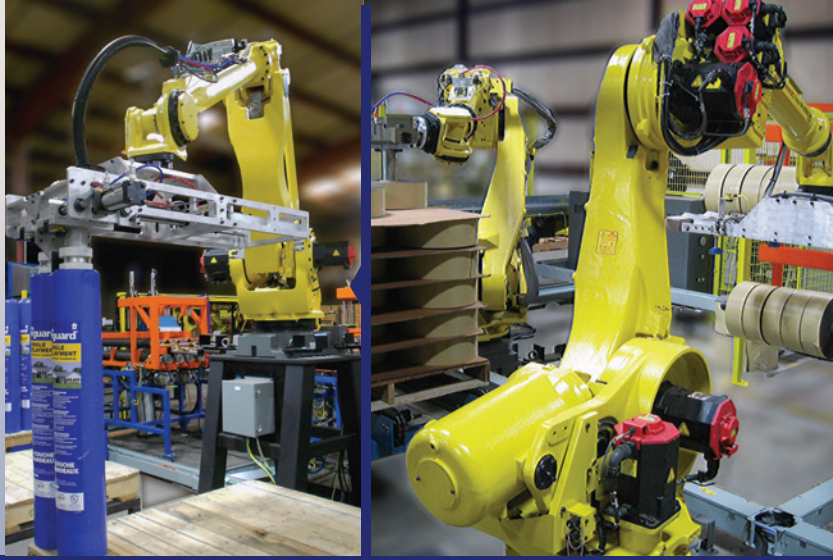
Robotic Roll Handling

FANUC Robots	payload	reach
M2000 series	up to 2300 KG	4.68 m
R2000 series	up to 220 KG	3.09 m
M10 series	165 KG	2.66m

* Chart includes commonly used robots. Contact MCRI for full range of hundreds of FANUC robots available for all your roll handling needs.

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The Heavyweight Champion!



Watch
Videos

*Click on image to watch video



Roll Handling Overview



Vertical Roll Handling



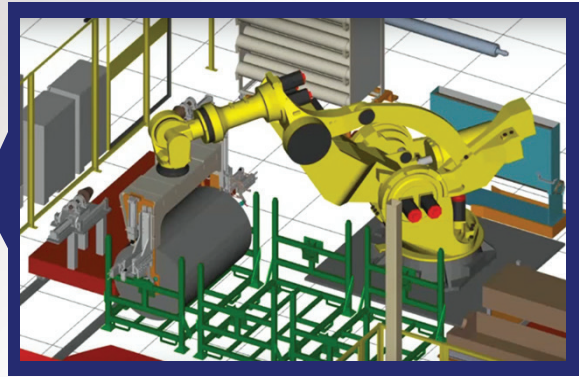
Roll Handling Teamwork



Robotic Roll Labeling

Need to handle large heavy rolls? Motion Controls Robotics has the ability to lift, upend, and package large paper, tissue, film or nonwovens rolls.

By providing complete turnkey systems, MCRI can supply engineered solutions that increase throughput and eliminate roll damage, all while improving operator safety and reducing fatigue.



Benefits of Robotic Roll Handling

Easy To Use

- Servo operated robot end of arm tool can be programmed to grab a wide range of roll diameters
- Automatic changeover adjustments
- Operator pendant or HMI screen for recipe management and error reporting

Reduced Costs

- Fully automatic operation eliminates all related palletizing/packaging labor
- Automation reduces worker compensation costs
- Efficient floor space usage

Flexible and Precise

- Handles multiple product sizes
- Precise, 6-axis servo-controlled system

Programmable

- Recipes accessible through HMI or operator pendant

Upgradeable

- Add upstream and downstream operations in the future



Robotic Roll Handling

Keeping Manufacturers Competitive with Quality Robotic Solutions