Adept Robotics for Packaging
Products / Applications / Solutions
Packaging is an important part of the manufacturing process. It minimizes product contamination, helps protect products from damage, and enables marketing and branding for products. The packaging solution chosen should provide a measurable return on investment, reduce the time to market, and be able to adapt quickly to product changeovers. For packaging processes that require repetitive, manually intensive product handling, robotics is the ideal solution. Compared with manual labor, robotic systems enable greater throughputs, better quality, and more reliability. Robots rapidly and consistently maneuver products, make efficient use of floor space, and quickly adapt to product changeovers through integrated vision technology. Robots are used across many industries, including food, cosmetics, personal care products, electronics, and other consumer products.
Adept Cobra s800 Inverted
The Adept Cobra s800 Inverted is a high performance robot system designed for a wide range of applications. Invert mounting helps save valuable floor space. With an 800 mm reach and a 5.5 kg payload, this robot is well-suited for packaging and material handling applications.

Simulated high-speed cartoning using an invert-mounted Cobra robot with integrated vision and conveyor tracking.

Adept Robotics In Packaging
Since 1983, Adept has been a leader in packaging. As the first industrial robot company to offer fully integrated vision and conveyor tracking, Adept has the largest global installed base of vision-guided robotic systems for packaging. Adept offers a broad range of high performance robots for handling, packaging, and palletizing applications – all run using the same compact control system and all capable of adapting to the rapidly changing needs of today’s packaging environment.

Packaging Solutions
Robots are just one component of a complete, flexible packaging solution. Tight integration with existing factory networks and plant-wide material flow are just as important. To meet these needs, Adept is aligned with industry-leading packaging machinery and systems integration companies to deliver the most comprehensive and flexible packaging solutions on the market.
1 Fast, Compact Tabletop Robots
The Adept Cobra robot family is a high-speed, medium payload SCARA robot product line, ranging from 350 mm to 850 mm in reach. Adept Cobra robots feature embedded amplifiers and ultra-compact controls, which lowers the cost of integration.

2 High Speed Parallel Robots
The Adept Quattro s650H and 650HS robot is the industry’s fastest packaging robot. The Adept Quattro features a long vertical stroke (Z stroke) and high level of performance across its extensive work envelope. As the only robot of its kind to feature embedded amplifier and ultra-compact controls, the Adept Quattro differentiates itself from similar robots with its combination of high productivity, cost savings, ease of deployment, and flexibility.

3 Packaging Automation Software
Adept is a world leader in robotic vision guidance for flexible, high-speed handling and packaging applications. ACE PackXpert is a powerful software solution for the rapid development of robotic packaging applications. The software architecture is intuitive, flexible, and reusable, which eliminates the need for lengthy, overly-complicated programming.

4 Space Saving Invert Mounted Robots
The Adept Cobra Inverted robot is ideal for packaging applications requiring high-speeds, heavy payloads and long Z strokes. Convenient above-the-belt mounting and compact controls allow for high-speed packaging with efficient space utilization.
Integrated Vision and Conveyor Tracking
Adept has over 20 years of proven expertise in seamlessly integrating robotic motion, vision guidance and inspection, and conveyor belt tracking into a common controls environment. High-speed conveyor tracking is ideal for applications where robots must package products that are presented randomly on a moving conveyor belt. These functions are supported in all Adept robot products.

Heavy Duty 6 Axis Robots
The Adept Viper robot family is a flexible 6-axis robot product line. With a reach of up to 1700 mm and multiple payload options, the Adept Viper robots are adaptable for a variety of packaging configurations.

Powerful and Open Compact Controls
The Adept SmartController is a powerful and open controls platform with the most compact design in the industry. Extensive built-in features like motion control, vision support, and conveyor encoder latching deliver the highest performance and reliability. With the ability to control up to 24 axes of motion, the Adept SmartController enables cost savings and simple integration.

Addressing Hygienic Needs - USDA Accepted Equipment
The Adept Quattro s650HS is the only high-speed parallel robot to receive USDA-Acceptance for meat and poultry processing. This provides an ideal solution for users who require the highest of speeds in an environment where food safety is a concern.
Adept Quattro s650H

The Adept Quattro s650H is specifically designed for high speed packaging and material handling. Its unique 4-arm design with a flexible, rotational platform ensures the highest speeds, high acceleration and exceptional performance across the entire work envelope. In addition, the powerful embedded amplifiers and compact controls make installation easy and reduce workspace requirements. The high speed and precision of the Quattro robot make it a perfect choice for flexible and productive “one at a time” packaging, material handling, kitting and assembly applications.

Open Packaging Needs

The Adept SmartController CX platform offers real time integration of high-performance vision, robot control, and line tracking, all within a compact, highly-reliable package. It also provides seamless integration with PLC and PC-based architectures.

The Adept SmartController CX platform uses industry standard communication tools such as OPC, Ethernet, RSLogix™, DeviceNet, TCP/IP, and IEEE-1394 to allow tight integration with machine and factory networks, resulting in efficient information flow, unmatched performance, and superior maintainability of your packaging system.
By combining real-time performance with open, seamless communications, the Adept SmartController CX platform shortens integration and changeover times and provides increased flexibility. This ensures a faster return on your automation investment and the ability to adapt to today’s rapidly-changing packaging environment.
“Our Adept vision-guided robots enable us to run our lines at higher speeds, use multiple package configurations, and meet our customer demands while staying on top of fashion trends.”

— Mark Johnson
L’Oréal

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