



 BRENTON[®]

ROBOTIC SYSTEMS

EoL

END OF
LINE

CUSTOMER-DRIVEN SOLUTIONS

MAXIMUM RELIABILITY

ROBOTIC EXPERTISE MEETS CUSTOMER DRIVEN SOLUTIONS

Brenton robotic systems provide customers with flexible, high performance solutions for most end-of-line packaging, palletizing and material handling needs such as high-speed case packing, pick-and-place, with sortation and multiple SKU routing. Their systems are designed specifically to the customer's needs and specifications.

Brenton has over 500 robotic installations in the field. As a Certified Servicing FANUC integrator, Brenton is in the top 4% of FANUC's integration base and has master trained technicians on staff. Their robotic reach does not stop here, Brenton is equipped to integrate any robot the customer specifies.



ROBOTIC SOLUTIONS

Even for simple pick and place applications, automation is a great way to reduce repetitive motion injuries while increasing overall production. Robotic solutions are low maintenance, flexible, and re-configurable. Products can be picked from flighted conveyors or vision systems can be added to randomly pick and arrange products as required. The opportunities are endless. How can your facility benefit from automation today?

CASE PACKING

Brenton robotic case packing systems provide customers with flexible, high performance solutions for most case packing applications. Both high speed applications as well as multiple case load style systems are available. These systems are designed to application requirements and can be configured to run RSC, Wrap Around or Tray applications. These solutions run 90,000 hour mean time between failures. Features include safety interlocked access doors, protection packages for harsh cold/wet applications, data collection and reporting, and bar code reading and verification. Robotic case packers seamlessly integrate with customer's preferred or existing equipment, case erector, sealer, palletizer, stretch wrapper and/or labeler.

PALLETIZING

Currie, a Brenton Product Line, provides custom engineered and manufactured solutions to meet a vast variety of palletizing challenge with robotic, low-level and high-level infeed conventional palletizers, case elevators, pallet dispensers, sheet feeders and complete palletizing systems. Solutions are built to the customer's specifications. Customers can select existing pack patterns or program new ones on the HMI. Currie's modular design featuring a standard no-base frame, and roller bed hoists allows for expandable future growth, easy relocation, and the fastest sheet inserters in the industry. Built in safety features such as a framed guard door package, CAT II safety circuits and muting light curtains are standard on all equipment.

PICK AND PLACE

Brenton integrates robots to handle a multitude of products from consumer packaged goods to food and pharmaceutical products. Utilizing 5 & 6 axis articulating arms, delta style high speed robots, and 4-axis SCARA robots depending on what the application calls for. If a simple 2-axis robot will do the job, Brenton can provide that as well. High Speed Pick and Place Robots like Fanuc's 'M' series delta style robot or 'SR' series SCARA robots are perfectly suited for picking products and placing them into primary or secondary packaging. Utilizing vision systems and line tracking increases flexibility and versatility in today's rapidly changing consumer packaging environment.

TIRE PAINTING

Original tire painting applications featured a multi-axis articulated robot controlled by a third party robotic control pendent. The pendent was then integrated into the HMI. The customer could interface with the robot through the HMI but all motion control was managed through the pendent. Brenton has engineered a new robotic tire painter. Featuring a 4 axis, delta style robot, this new solution is free of the dedicated robot controller hardware, utilizing the Allen-Bradley PLC to directly control the robot motion with PLC ladder logic. All robotic interfacing and movement is direct from the logic controls system - no more umbilical cord to pendent required. Seamlessly integrating with packaging lines, one program, one interface.

Brenton Solutions



STRATEGIC PARTNERSHIP

Pick and Place Solution for Food Customer

CUSTOMER CHALLENGE: A hurdle to this customer's success was loading various pack patterns and achieving speeds to keep pace with output goals.

BRENTON SOLUTION: Creative engineers designed a system that understood how to pack multiple SKUs into various cases according to mixed product configurations. The robotic top load case packing system packs pouches into wrap around cases, operating at speeds up to 120 flow wrapped packages per minute.



PICK AND PLACE TOP LOAD CASE PACKER

Palletizing for Health Care Customer

CUSTOMER CHALLENGE: Within a very confined footprint this customer desired an end of line packaging solution. They knew a simple off the shelf solution would not do.

BRENTON SOLUTION: Meeting this challenge head on, a compact system was designed to integrate multiple functions including check weighing, labeling, label verification, robotic palletizing and stretch wrapping in one single cell.



ROBOTIC PALLETIZING CELL

Complete Robotic Solution for Medical Technology Customer

CUSTOMER CHALLENGE: Customization was key to this integrated robotic case packing and palletizing system designed to pack and palletize cases of flexible pouches. The customer had both a unique case and pack pattern. Furthermore, the product needed to be loaded on its edge.

BRENTON SOLUTION: An entire line from case erecting and loading, sealing, labeling, vision inspection and palletizing was delivered as a complete integrated solution. A six-axis robot picks a group of pouches and places them into a partitioned case and repeats this cycle three times to load the case. The robot alternates between the infeed conveyors to maximize throughput. Light curtains mounted below the conveyor and above the case load station monitor for dropped products prior to placement in the case.



INTEGRATED SOLUTION

Custom End-of-Arm Tooling The key to versatility in your packaging Process

Brenton custom designs end-of-arm-tools to accommodate each customer's unique product and project application. The EOAT is a major part of planning a functional robotic cell. A well-designed EOAT can be utilized to accommodate various sized products without manual adjustment and service multiple lines at the same time with multifunctional operations.



END OF ARM CLAMP STYLE TOOL

MARKETS SERVED

1. Food
2. Beverage
3. Pharmaceutical,
4. Nutraceutical,
5. Medical Device
6. Healthcare
7. Personal Care
8. Household Products
9. Pet Products
10. Material Handling

Learn how Brenton can simplify your processes with Machine Vision and other integrated product handling solutions.

BrentonEngineering.com



Brenton engineers and manufactures custom case packing, palletizing, robotic packaging systems including material handling, high speed pick and place, and integrated end-of-line systems. Specializing in food, beverage, pharmaceutical, medical device, personal care, and household products, Brenton surpasses regulatory and market driven demands and creates collaborative, long-standing partnerships to best serve a diverse customer base. Brenton is a product brand of ProMach, a global leader in packaging line solutions. As part of the ProMach End of Line business line, Brenton helps packaging customers protect and grow the reputation and trust of their consumers. ProMach is performance, and the proof is in every package. Learn more about Brenton at www.brentonengineering.com and more about ProMach at www.ProMachBuilt.com.

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