

Robotics

Case Packer | Palletizer | Tire Painter | Material Handling



Brenton[®]
powered by Pro Mach 

Brenton® Case Packing

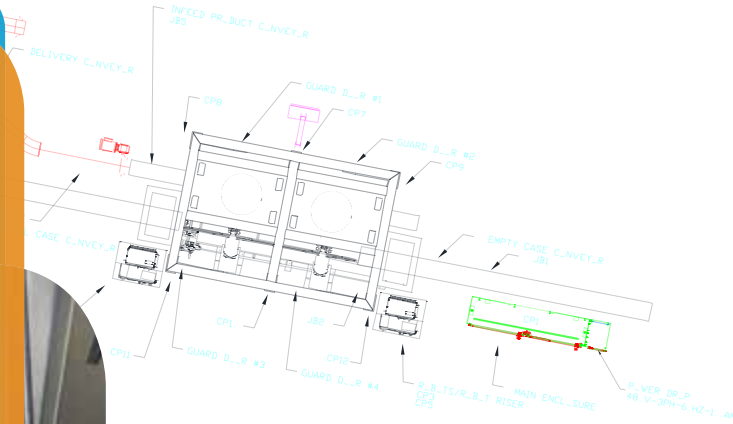
Pick-and-Place Packages

Brenton® Palletizing

Palletizers | De-Palletizers | Bulk Palletizers

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 engineering minds 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.



Robots utilize vision technology to line-track and pick products on the move. Robots equipped with vacuum tooling pick individual packages and place them to a layer buffer stations located between the product supply and the case load conveyor.

Two robots pick layers of product and place them into the cases. Intelligent interference checking software is utilized to ensure robots cannot collide as they share the same work space.

Food Customer



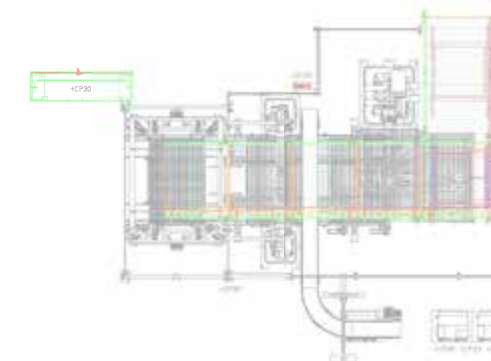
Medical Technology Customer

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 to loading, sealing, labeling, vision inspection through to palletizing was delivered as a total 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.



Great for applications palletizing cases, bundles, bags, or large objects with complex patterns



Customer Challenge: Within a very confined footprint this customer desired an end of the 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. All in a single cell!



Health Care Customer

**We don't just say we can do it
We prove ourselves by
doing it every day**

Inspected, sealed, and labeled cases are received from the upstream case packing equipment. Cases accumulate on the infeed conveyor to the palletizer. The robot also handles the placement of the base sheet to the empty pallet. The system operated at speeds up to 180 products per minute.

Brenton®

End-of-Arm Tooling

The key to versatility in your packaging process

When creating a robotic packaging line to handle lunch meat, cookies, cereal, flour, detergent, deodorant, 100 lb. bags, etc., engineers need to give the robotic End-Of-Arm-Tooling (EOAT) good thought to solve our customer's problems.

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.



Brenton custom designs end-of-arm-tools to accommodate each customer's unique product and project application. Contact us for examples or to start a conversation about how we can help with your application's needs

Material Handling

Pharmaceutical to Building Products

Adaptable to small scales, odd sizes, and randomly oriented pieces

High and variable speeds with **full accuracy and accountability**

Quick and easy changeovers



High-speed | Pick-and-place | Sorting | Inter-plant routing



Tire Painter

12,000 Tires Per Day



The Brenton robotic tire painter system applies coatings to white sidewalls and raised lettering and can handle a random mix of tires.

HIGHLIGHTS

- 500+ robotic system installations
- Programs a variety of shapes and sizes
- 100+ years experience with in robotics group
- Handles hazardous and potentially injury-causing materials, including repetitive motion exposure
- R&D machine development and design

FANUC Certified Servicing Integrator



Many companies advertise FANUC integration, but only 4%, including Brenton, are Certified Servicing Integrators (CSI).

- Master Certified FANUC Technicians
- PMMI Certified Trainers



BrentonEngineering.com

A Division of Pro Mach Phone: (320) 852-7705
 4750 County Road 13 NE Fax: (320) 852-7621
 Alexandria, MN 56308 Email: Sales@becmail.com