KRAKEN AUTOMATION

Application Highlights

Factory Automation Solution Innovators

Robotic Palletizing Systems for Heavy (Mesh/Paper/Plastic etc. Bags)…Complete with Industry First, Heavy Duty Infeed and Transfer System- Increases Plant Productivity and Efficiency

Turnkey robot selection with state-of-the-art end-of-arm tooling and product delivery systems are key ingredients of a fully functional and optimized material handling system for product palletizing.

Tertiary packaging systems are utilizing robots to a greater extent in providing flexible solutions, especially with difficult to handle cases and/or bags. The selection of robot, in conjunction with robot's end-of-arm tooling and product infeed and delivery system, ate the key aspects of a fully functional handling system for product palletizing.

Kraken conceptualizes, designs and assembles a fully integrated system to address customers' specific project issues. Our innovative solutions provide equipment sometimes not available today on the industrial material handling market.

Some Ingredients for Achieving Success with Customer Specific Application Requirements:

Comprehensive customer briefing to identify customer requirements, business issues, critical paths and timeline including a well defined solution proposal & validation.

Step-by step project management transparency with constant customer interaction & feedback through system refinements and final testing.

Complete turnkey system integration and engineering and controls services from under one roof.

Out-of-the-box innovative technologies, application & execution to meet specific customer requirements.

System Features at a Glance:

- A bag conveying system incorporating belt over roller, center tracked (conveyors with belts wider than longer) and roller conveyors;
- A control system providing bag routing capability from three pairs of filling units to two robotic palletizing cells, incorporating bag traffic copping functionality between trunk and filler conveyors;
- A unique bag transfer mechanism to positively transfer heavy, paper or plastic bags from filler conveyors (wide edge leading) to the main trunk transport conveyor (short edge leading to the robot palletizing cells). This machine can handle a variety of heavy bags and sizes.
- A means to identify bags using a non-contact UV ink application, detection and verification system, thereby uniquely identifying bags according to originating filling station.

Cont. from page 1 of KRAKEN Heavy Bag Robotic Palletizing Systems, Complete with Heavy Duty Infeed and Transfers.

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- A robot end-of-arm tooling to not only provide bag squaring at pickup and transport, but properly place and release bag to maintain pallet stack perimeter dimensions within the pallet dimensions;
- Dynamic (not using fixed program offsets) pallet height analysis from the robot end of arm tooling after each pallet tier completion. This ensures that the robot is instructed as to the actual pallet stack height given the variability in bag fill density (and therefore bag thickness dimensions for the same product SKU);
- Non specialized integrated components utilized standard industry manufacturers, such as Hytrol (belt, roller conveyors) and ABB (IRB 660 palletizing robots);
- Capability to handle plastic bag products with alternate robot end of arm handling tool.

Industry first heavy-duty infeed & transfer system (up to 60lb bags)

KRAKEN engineered robotic end-of-arm tool for squaring, gripping and placing product

Square product, tight pallet stack perimeter achieved

Non contact UV ink application system

UV detection and verification system

Bag conveying system incorporating belt over roller

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Contact us today for more information as to how Kraken Automation can assist you with your robotic palletizing, pick-and-place or flex-pick application requirements .