AXIUM has solid expertise in both mechanical and robotic design resulting in state of the art engineering and manufacturing ability that enables us to create solutions that deliver performance while reducing the client’s operational costs.

Our large assembly workshop allows us to set-up entire systems and recreate a client’s site and working conditions. This enables us to perform all necessary tests before delivering the equipment to the client.

Axium offers turnkey solutions dedicated to the distribution centers. Over the years we have integrated more than 500 robots in a wide variety of applications throughout North America.
AXIUM offers a complete range of solutions for distribution centers. From robotic mixed load palletizing to conveyors and layer de-palletizing Axium is a dependable partner for any distribution center automation project. Axium’s mission is to design, manufacture and market successful large-scale robotic solutions, for complex material handling environments.

**AXIUM SOLUTIONS**

**AXIUM PARTNERS**

**ROBOTIC MIXED LOAD PALLETIZER**
- Full Mixed load palletizing
- Flexible servo-driven EOAT automatically adjusts to varying case sizes and packaging types
- Compact, scalable and modular design
- High Speed palletizing
- Wide Case size range from 4”x6” to 20”x25”
- Software using combinational algorithms yields loads optimized for density and stability and delivery friendly orders
- Integrated stretch wrapping during the pallet build process

**ROBOTIC LAYER DEPALLETIZER**
- Industry proven de-layering tool handles wide SKU variety
- High speed delayering
- Innovative design handles closed cases, open trays, shrink wrapped trays, etc.
- Independently adjustable clamping pressure along each allows handling of delicate product and low product layers
- Bottom layer support yields secure product handling
- Integrated pallet conveying and stacking

**ROBOTIC MIXED CASE PACKING**
- Compact mixed case packing
- Modular design allows multiple robots to collaboratively case pack orders
- Robots are driven by software using combinational algorithms yields loads to optimize case density and preserve product integrity
- Highly adaptable EOAT

**PERIPHERAL EQUIPMENTS**
- Heavy duty (2) and (3) chain pallet conveyor
- High speed pallet dispenser, up to 180 pallets/hr
- Single and double pallet shuttle conveyors
- High speed pallet load stackers, up to 200 pallets/hr

**FULL MIXED LOAD PALLETIZING**
- Semi-Automated Assisted Palletizing
  - Constantly optimized working height for most ergonomic operation
  - High speed elevator minimizes pallet transfer times
  - Single or double operator palletizing mode
  - Safely build mixed or single SKU pallets within a predefined perimeter tunnel
  - Integrated Stretch Wrapping stabilizes load during the build process
  - Optional palletizing assistance software and product placement indication

**CASE INSPECTION SYSTEM**
- Accurately measures Length, Width, Height with +/-5mm accuracy
- Impervious to packaging types, including glossy and transparent film
- Conveyor scan speed up to 120 ft/min
- Robust to protuberances, detects deviations from nominal dimensions
- Optional integrated case reject system

**SEMIAUTOMATED ASSISTED DEPALLETIZING**
- Case depalletizing in a predefined Shroud
- Optimized depalletizing height and drop conveyors
- Yield ergonomic operation
- Single or double operator depalletizing mode

**PALLETL Inspection**
- Supports all types and dimensions of pallets
- Detects broken/missing boards, raised nails, loose wood and splinters, missing or damaged leading boards
- Inspects both top and bottom of pallets, detects missing blocks
- User friendly interface with adjustable reject tolerance

**AXIUM works with its valuable partners to complete its own solutions by integrating quality equipment from its partner network**

**AXIUM PARTNERS**

**AUTOMATED HIGH DENSITY STORAGE**
- Cases conveyors
- 1D and 2D Barcode scanning
- Sorting solutions