

Your bakery is our world.

VersaLoader Robotic Product Loader

Patented servo controlled gantry robotic arm offers gentle product handling to deliver tightly grouped product packages into baskets, trays, or corrugate cases.



DESIGN INNOVATION

Using AMF's patented gantry style robotic arm, the VersaLoader gently picks and places bread or buns into plastic or corrugate containers. Servo controlled motions ensure gentle product handling with high speed and efficiency. The VersaLoader robot uses commercially available parts and is fully controlled by an Allen Bradley PLC which means no specialized training is required. The AMF patented, quick-change, End-of-Arm-Tool (EOAT) uses 200 small suction cups to form a pattern by picking groups of products then compressing and loading the entire pattern into the basket, tray or case.

EFFICIENCY

Pattern configurations are custom-configured based on product, using the same end-of-arm tool with pattern recipes stored in PLC for efficient product changeover. The VersaLoader offers 10% greater efficiency than AMF's standard Product Orientor Loader.

FLEXIBILITY

VersaLoader offers dual or multi-layer stacking of packages into plastic or corrugate with custom pattern configurations for the most flexible packaging performance.

RELIABILITY

200 individually-valved suction cups provide gentle product handling minimizing film puckering compared to competing product loaders.

PERFORMANCE

Four side compression flaps on the End-Of-Arm-Tool compress the entire pattern at once to increase tightness of fit in the basket, tray or case. Pattern recipes ensure the tightest fit as configurations change for additional products.



When Efficiency Matters

OTHER ADVANTAGES

- ▼ Simple, robust design simplifies maintenance compared to mechanical loaders
- ▼ Highest quality components used in construction of robotic gantry arm
- ▼ Extremely small overall footprint with usable space for product and basket handling
- ▼ EOAT is sized for the basket and any pattern can be formed and loaded into the basket without changing the EOAT
- ▼ Simple pattern adjustments through Allen Bradley PanelView touchscreen. New gantry paths are automatically optimized with AMF's developed path planner software
- ▼ Mis-pick sensing and automatic product purge increases line efficiencies
- ▼ Basket referencing, pattern compression and servo precision increases efficiencies by being very tolerant to damaged baskets
- ▼ Four servo-controlled belt-driven axes control all product motions



Regenerative Blower Vacuum System with Silencer



Patented Compressive End of Arm Tool



Tubular Stainless Steel Frame



Intralox Plastic Conveyor Belting

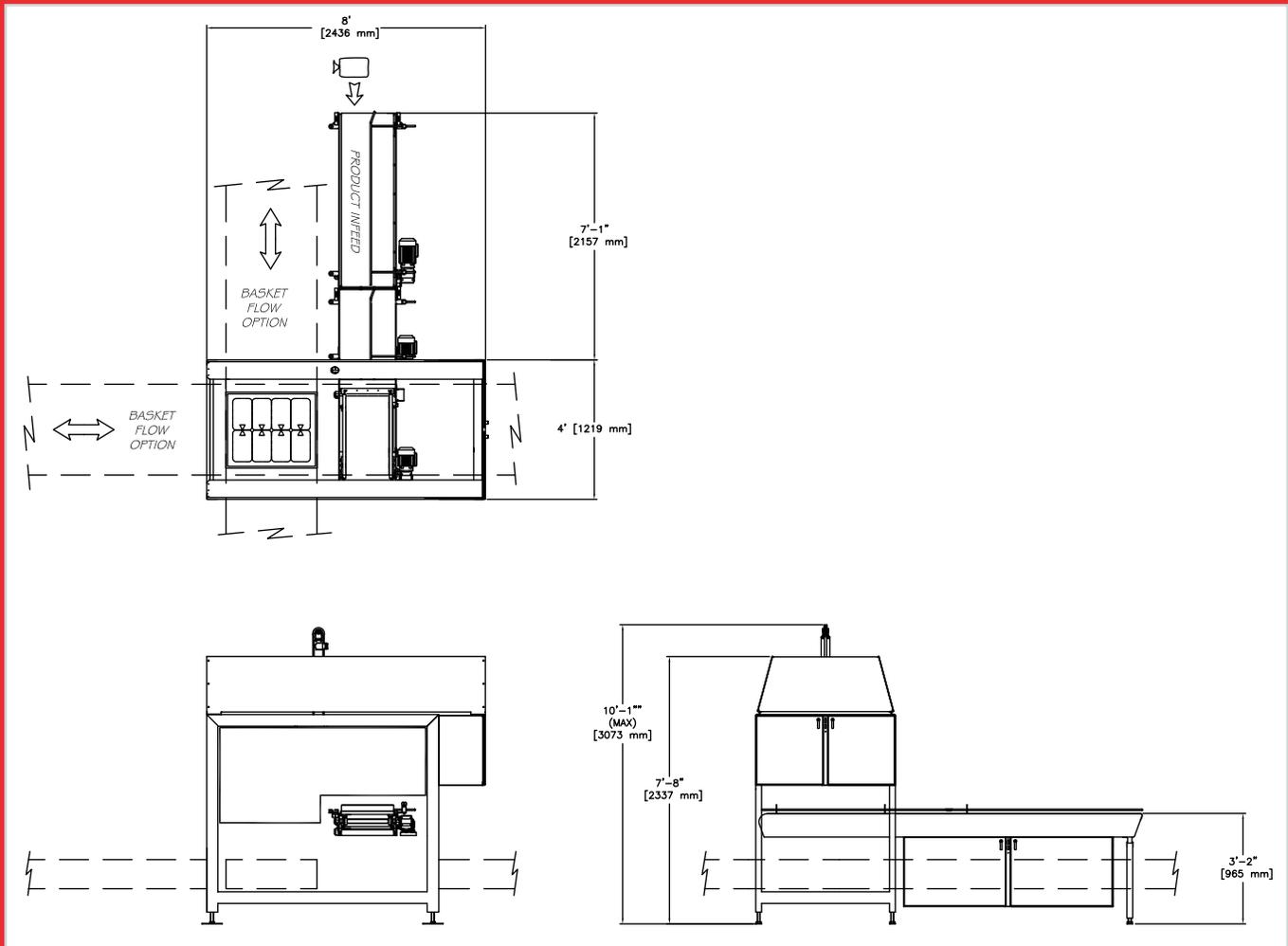


Four Belt-driven Axes



Touch Activated Suction Cups

DIMENSIONAL DRAWING



OPTIONS

- Seamless AMF packaging and post-packaging line integration
- Full basket vision inspection system
- Product feed conveyor system
- Basket handling conveyor system
- Remote diagnostics
- In-plant training by certified AMF technicians
- Multiple container size tooling

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AMF's focus on continuous improvement may result in changes to machinery specifications without notice.