

AMF

Packaging - Processing
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VERSALoader ROBOTIC PRODUCT LOADER



- The VersaLoader uses an AMF patented Gantry style robotic arm to pick and place bread or buns into your basket, tray, or case.
- Servo controlled motions ensure gentle product handling with high speeds and high efficiencies.
- 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 compresses the entire pattern and loads it into the basket, providing for a tight package to basket fit ratio.

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FEATURES & BENEFITS

- Unmatched speed and payload capabilities with 30 cycles per minute and 50 lb. (23 kg) payload possible.
- Extremely small overall footprint – most of the space is useable for product and basket handling.
- The EOAT is a patented device which minimizes film puckering by using a high population of small suction cups instead of fewer large suction cups.
- The EOAT is sized for the basket and any pattern can be formed and loaded into the basket without changing the EOAT.
- The EOAT compresses the entire pattern of products at once with four side compression clamps in order to increase the tightness of fit in the basket. Often patterns can be changed to add additional products per basket with a tighter fit.
- Change-over between different sized loafs can be made in 30 seconds and if a basket or case size change is required the process takes only a few minutes to exchange the EOAT.
- Adjusting patterns or setting up new patterns is simple and is accomplished through the PanelView touch screen. New gantry paths are automatically optimized with the AMF 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.
- Only the highest quality components are used in the construction of the gantry arm. The simple and robust design eliminates the need for many mechanisms which a mechanical loader would use and reduces the burden on maintenance.
- Four servo-controlled belt-driven axes control all product motions.
- Over 150 AMF Gantry Robots have been installed since first deployed in 2002.

MECHANICAL FEATURES

- AMF patented belt-driven gantry robotic arm
- AMF patented individually valved, touch activated suction cups
- AMF patented collation system
- AMF patented compressive end effector (EOAT)
- Tubular steel frame with Lexan guarding
- Regenerative blower vacuum system with silencer
- Intralox plastic conveyor belting
- SEW shaft mounted conveyor drives



ELECTRICAL FEATURES

- Allen Bradley CompactLogix PLC
- Allen Bradley PanelView Plus Touchscreen
- Ethernet communications
- Category III safety control system
- Swing arm mounted operator terminal
- Stack light and audible alarm

OPTIONS

- Seamless AMF full-line integration
- Product vision inspection systems
- Bag tie sensing system
- Full basket vision inspection system
- Product feed conveyor system
- Basket handling conveyor system
- Washdown friendly NEMA 4X and stainless steel construction
- Remote diagnostics
- In-plant training by certified AMF Technicians

SPECIFICATIONS

Electrical Requirements:

208/230/240/460/480/575/600 volts, 3 phase, 60Hz

Air Requirements: 2 SCFM @ 80 PSIG

PLC I/O Voltage: 24 VDC in/ 24 VDC Out

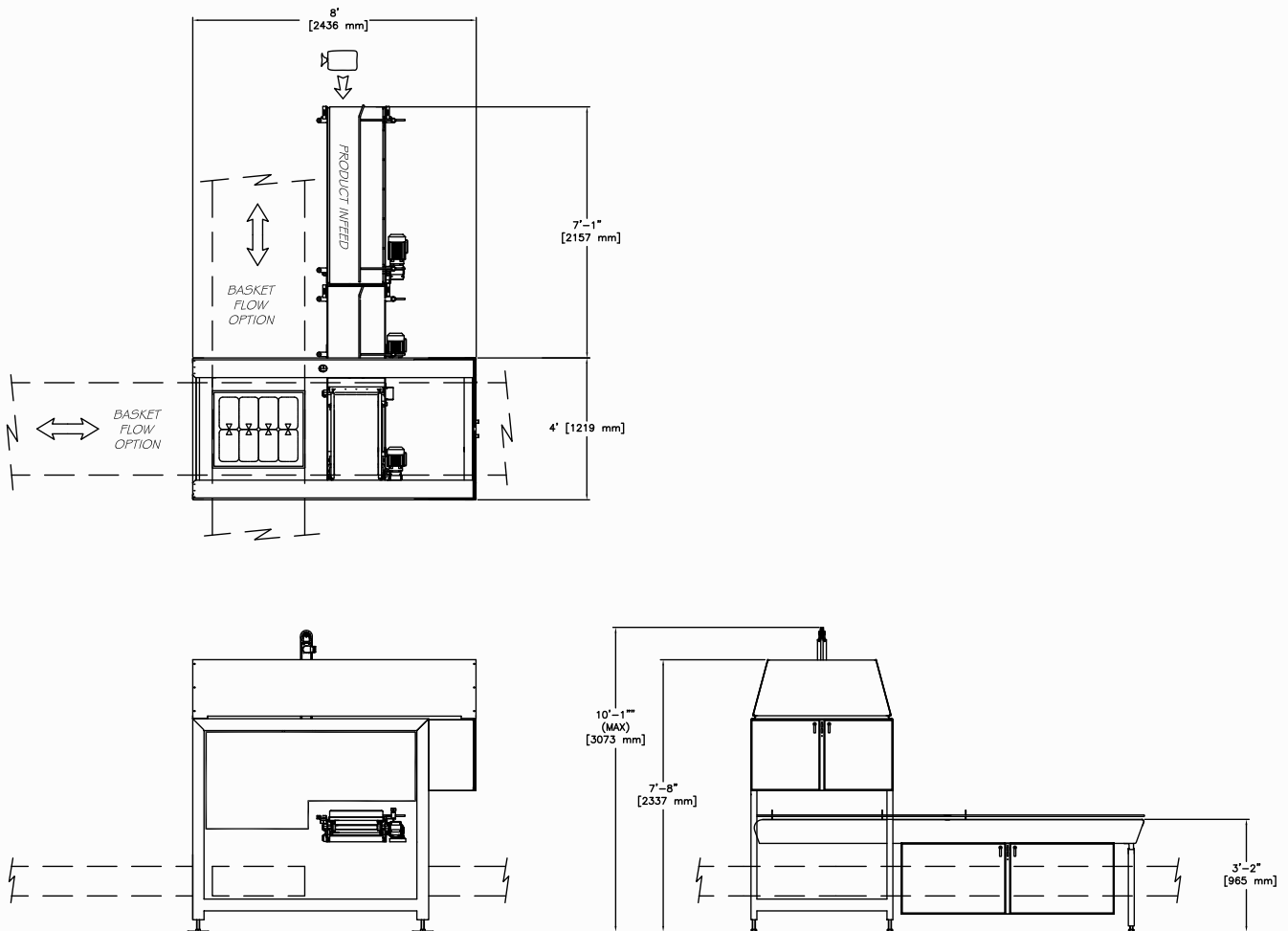
Packaging speeds are pattern dependant – call AMF for rate information on your patterns

Approximate Shipping Dimensions:

121" x 96" x 133" (3073 mm x 2438 mm x 3378 mm)

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DIMENSIONAL DRAWING



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FOR MORE INFORMATION PLEASE CALL YOUR ACCOUNT MANAGER OR

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