



ROBOTIC CASE PALLETIZER

FROM CONCEPT TO COMPLETION

The Sentry Robotic Case Palletizer is designed to orient, arrange and place layers of finished goods (trays, shells, packs or cases) onto a pre-staged pallet for transportation to the end user.



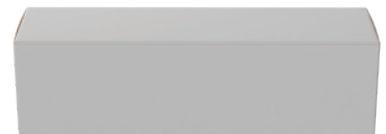
CUSTOMIZABLE



MAXIMIZES VERSATILITY



MAXIMIZES PRODUCTIVITY



PHONE 434.525.0769

WWW.SENTRYEQUIPMENT.COM

OPTIONS & FEATURES

FEATURES

- High-Speed FANUC Robotic Arm
- Vacuum Style End-of-Arm Tool
- Mat Top Conveyor
- High Speed, Servo Controlled Sweep
- Heavy Duty Hoist
- Fork Style Pallet Dispenser
- Discharge Pallet Conveyor
- NEMA 12 Control Panel
- Allen-Bradley HMI

OPTIONS

- Tier Sheet Inserter
- Custom Platform
- Additional Patterns
- Additional Infeed and/or Discharge Pallet Conveyor



Custom Engineered



Factory Acceptance Test



Start-Up Assistance

EFFICIENT

Cases enter the **Case Orienting Zone** in single file. The meter belt discharges the cases/trays onto an **Orienting Zone**. As cases enter the orienting zone they are located and tracked by a high-speed robotic arm. The Vacuum Style End-of-Arm-Tool (EOAT) on the arms captures the case as it is moving forward, rotates it and/or moves it left or right as required to form the layer pattern. The case continues to advance forward through the orienting zone to the **Layer Forming Zone** where a layer of cases can be accumulated.

The **Layer Forming / Staging Zone** accepts cases and positions them with a pneumatically-operated pop-up case stop. The cases are positioned in the zone by a pneumatically-operated pop-up case stop, which holds the cases until a completed layer has been accumulated. The high-speed, overhead mounted sweep transfers the layer from the pre-sweep accumulation area to the split drawplates. The drawplates open allowing the layer to rest on the empty pallet or previously deposited layer below.

USER FRIENDLY

Operator Interface Stations are located at several locations on the Palletizer. The machine will be equipped with a main control console containing a 12.5" Allen-Bradley HMI and mounted on the Layer Sweep / Upper Hoist Frame for operator interfacing. Additional control stations are located throughout the machine for local pushbutton control of subsystems of the machine.



QUALITY ASSURED

Sentry's product line is manufactured with only the highest quality components and materials. All components are designed, assembled and tested in Sentry's own facilities in order to provide the unequaled quality of its machines.



YOUR SAFETY IS OUR TOP PRIORITY

Sentry has made the end user's safety our highest priority in both the design and features of all of our equipment. In addition to the safety features listed below, our Case Palletizers are built with various safety guards throughout the machine to keep personnel at a safe distance from moving parts that otherwise could cause injury.



EMERGENCY STOPS

Each machine is equipped with one or more emergency stop pushbuttons. These will stop the machine quickly in the event of an emergency. When pressed, compressed air is released from all of the pneumatic components in the system.



WARNING LABELS & STACK LIGHTS

Warning labels are attached to the machine where needed as a reminder of the safety precautions required. Additionally, stack lights give visual warnings of the machine's current operation status.



ACCESS DOOR SWITCHES

Door Switches activate when the connection of the switch is disconnected by opening the door. When activated, the machine is signaled to shut off the electrical supply and pneumatics to the machine.



LIGHT CURTAINS

Photoelectric presence-sensing devices prevent the operator from reaching into an operating machine. If the light curtain is broken, the Safety Relays will remove control power and emergency stop the machine.



THE SENTRY DIFFERENCE

The key to a successful project begins with planning. Sentry's sales and engineering team guarantees successful projects through site and application planning, continual evaluation of the projects and a service department that insures the long term performance of all Sentry Equipment.

All Sentry designed projects are developed with sophisticated CAD systems. Using the latest software, tried and proven ideas are included in all designs to provide reliable and efficient operation.

At Sentry, we are determined to achieve the best possible result at the conclusion of each project. We hold ourselves to a high standard of performance and longevity of the equipment we produce. Every new project is an opportunity to outperform the expectations of our customers.



UNMATCHED SERVICE



LATEST TECHNOLOGY



HIGHEST QUALITY

CONTACT US

Phone 434.525.0769
Fax 434.525.4492
Email Sales@SentryEquipment.com

13150 E. Lynchburg-Salem Turnpike
Forest, Virginia 24551

For more details about Sentry's products and services, visit **SentryEquipment.com**



HONEST AMERICAN QUALITY