

Automatan

BY INSPIRE AUTOMATION



AUTOSTAK™ ROBOTIC PALLETIZER

The Automatan AutoStak™ Robotic Palletizer automates the bundle palletizing operation. The system handles multiple stack patterns and bundle configurations. Bundles enter the work cell on an inbound conveyor and are rotated if necessary. The EOAT then uses paddle transport fingers to grip the bundle and transfer it to the load-former. Before each new layer is started, a dunnage sheet inserter will insert dunnage sheets on top of each layer. When the unit is complete, the robot will index the outbound bale conveyor and repeat the process.

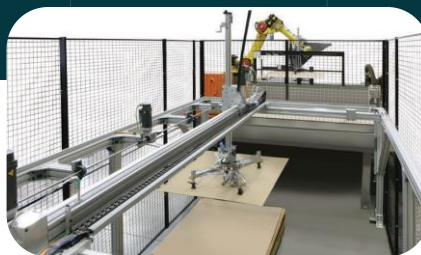
Features and Benefits

- Reduces manual labor and decreases operator fatigue and injuries.
- Handles multiple bundle configurations.
- Increased machine efficiency.
- Inspire integrates with the LF and infeed bundle conveyor systems for a total system integration.
- Layout is operation friendly, allows for manual stacking, if required.
- Stores jobs for quick set ups.
- Up to 23,000 sheets/hour, and 18 bundles per min (speed curve influenced by sheets per bundle, stacking pattern, load-former speed).



END-OF-ARM-TOOL (EOAT)

The AutoStak Palletizing EOAT is responsible for transferring the corrugated bundles from the outbound conveyor system to the palletizing area utilizing paddles.



DUNNAGE SHEET INserter

The AutoStak robot inserts the tie sheet(s) before each new bale is formed. The system will place the number of sheets and configuration as desired.



SAFETY SYSTEM

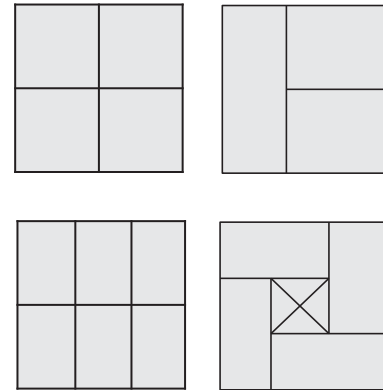
The AutoStak safety system prevents accidental exposure to the system. It includes guards, interlocks, and remote e-stops.

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SPECIFICATIONS

PALLETIZED TO ANY CONFIGURATION

With more than 87 pallet configurations AutoStak Palletizing system provides the most versatile functionality in the industry. Illustrated are some of the most common configurations.



FEATURES

THE SYSTEM INCLUDES

- Robot (Kawasaki / Fanuc)
- End of Arm Tool (EOAT) – Bundle Transporter
- Robotic Tie Sheet Inserter
- Robotic Dunnage Sheet Inserter
- Safety System
- System Controls
- Conveyor integration to control and justify strapped and unstrapped bundles
- System Engineering with Load Former and Bundle Conveyor Infeed.



ROBOTIC TIE SHEET INSERTER

The Robotic Tie Sheet Inserter will automatically insert a tie sheet between the desired layer(s) as the bale is formed.



HIGH SPEED TURN STATION (OPTIONAL)

A powered turn station that turns strapped and unstrapped bundles, prior to the bundles entering the AutoStak robotic bundle slide area, to achieve speeds from 12 bundles per minute and up to 18 bundles per minute.

