Robotic Palletizing Systems

Hamer’s proven industrial quality and innovative designs offer the best value in durable, long lasting palletizing solutions.
The Hamer Palletizer

All Hamer robot palletizers are completely assembled, wired and tested in our manufacturing facility. Systems are wired with conduit and j-boxes to make dis-assembly and re-assembly in your facility fast and easy. All palletizers are programmed and tested on the specific products they will be running to ensure stack quality and speeds before they leave our factory.

Semi-automatic single or dual stack systems

Providing 80% of palletizing automation at a significantly lower cost than fully automatic systems, Hamer semi-automatic palletizers provide an efficient palletizing solution. Semi-Automatic systems utilize automatic in-feed conveyors to pace product in-feed to the pick and place palletizing station. Once a pallet is completed a fork truck removes the completed pallet and places an empty pallet ready for stacking. For dual stack systems product palletizing continues on one cell, while the completed cell is emptied and readied for the next pallet. Safety light curtains and controls ensure the robot is not active in a stacking cell when fork trucks are present. Semi-automatic palletizers can be configured in dual stacking cell (shown) or single stacking cell configuration.

Fully automatic palletizing systems

To maximize impact of automated palletizing, addition of a Pallet Dispenser, Slip Sheet Dispenser and fully automatic full pallet transfer conveyors provide a completely automated palletizing system. This system feeds empty pallets with or without slip-sheets automatically to the stacking area. Products are then picked and stacked on the pallet and when complete, the full pallet is transferred to in-line stretch wrapping/hooding equipment to automatically unitize the completed pallet for shipment, or picked up outside the palletizing cell by a fork truck. 100% of palletizing labor is eliminated and high production rates are maintained in this fully automatic design.

Industrial, heavy duty conveyors

With over 80 years’ experience in industrial packaging, we understand the demands of 24/7 use in dirty, dusty or corrosive plant environments. All of our palletizing system conveyors are designed for long life in virtually any plant environment. Roller to roller chain drive pick conveyors, direct drive pace and in-feed conveyors, all with 10 ga formed channel sides, powder coat finish, heavy duty bearings and industrial grade belting and rollers. Our CDLR, chain driven live roller full pallet conveyors come in 3,000 lb. or 5,000 lb. capacity per 5’ section, are built using 6” structural steel channel with powder coat finish.
Exclusive EasyPic™ operator HMI

Exclusive to Hamer robotic palletizers, EasyPic™ operator control allows for easy adjustment to pre-programmed pallet configurations or to add/adjust pallet stack as needed. This simple operator HMI is accessed via operator touchscreen and uses clear, easy to understand programming direction. Virtually any operator can quickly learn and manage their palletizing operation. EasyPic ™ makes programming new pallets fast, simple and safe.

End Of Arm Tooling – EOAT

A wide variety of end of arm tools are available, allowing the robot to pick and place bags, cases or pails/buckets. Hamer EOAT tools are heavy duty, industrial quality with easy to access maintenance parts. All are built specifically for long operating life in demanding industrial environments.

- Bag grip tools have a variety of options available, including manual or automatic width adjustment for handling a wide range of bag sizes without compromising stack integrity
- Case palletizing tools are available utilizing clamp or vacuum.

In addition, Slip Sheet Pick, Pallet handling and many other custom EOAT tool options are available.

Bag, case, and bucket/pail palletizing

Whether palletizing bags, cases or buckets, Hamer engineers review your application requirements and provide a solution designed to meet your production and budgetary requirements. With over 80 years in industrial packaging experience, Hamer is your source for robotic palletizing solutions.
Robotic Palletizing Systems

STANDARD FEATURES:

- Fast Palletizing Rates
- Bag, case, pail/bucket palletizing
- Small footprint systems
- Programmable/selectable pallet patterns
- Yaskawa/Motoman 4-axis servo industrial robot
- 160KG/320 lb capacity robot arm
- DX 100 robot control panel
- Robot mounting base
- Robot teach pendant
- Industry standard wire mesh safety guarding with interlock access door
- Safety compliant to ANSI/RIA Safety requirements

OPTIONS:

- Allen Bradley® PLC with Touchscreen
- Hamer EasyPic™ Operator HMI
- Fully automatic or semi-automatic systems
- Multiple robot arm systems
- NEMA 4X controls and robot protection packages for corrosive environments
- Access to full line of Yaskawa/Motoman robots for custom solutions
- Corrosion resistant packages for conveyors, robot arm, controls
- Various power options

SPECIFICATIONS:

Palletizing rates:
- Semi-auto, up to 20 per minute
- Single pick, fully automatic, up to 24 per minute
- Multiple pick, fully automatic, up to 28 per minute, (rates are pallet design/case/bag size dependent)

Power: 460V, 3 Ph, 60 Hz
Air: 2-10 CFM @ 80 PSI (design dependent)
Controls: Nema 12 enclosure
Safety: Design/Controls are compliant to ANSI/RIA requirements

End Of Arm Tooling:
- Bag Clamp, single or multiple pick
- Bag Clamp, fixed size, manually adjustable or, servo/automatically adjustable
- Case Grip, single or multiple pick
- Fork Style, multiple pick
- Vacuum, single or multiple pick
- Multi-function end of arm tooling:
  - Pallet pick/place
  - Slip-sheet pick/place
  - Auto tool change
  - Auto height sensor
- Multiple pick points
- Multiple stack points
- Custom conveying for bag, case, bucket/pails conditioning, in-feed, pacing, picking, power curves, accumulating
- Automatic pallet dispenser
- Automatic slip sheet dispenser
- CDLR full pallet conveyors
- 90 degree full pallet transfer
- Quad muting light curtains for continuous operation (semi automatic)
- Integrated automatic stretch wrapper or stretch hooder
- Automated, semi-automated or manual bagging systems

Your authorized Hamer representative:

Call Toll Free 1-800-927-4674

Hamer production facility