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AP SERIES
Automatic palletizer

High Level Automatic Palletizer

The **AP Series High Level Automatic Palletizer** is designed and built to automatically stack bags, bales and boxes squarely and efficiently on a pallet. There are **three different models** from the AP Series that can suit your specific needs. The modular concept allows them to be adapted to many layout configurations. Installation

is quick and easy; operation and maintenance costs are low. Construction is rugged and intended for continuous operation. The unique design of the **AP Series** employs 100 % electrical power, has harmonic motion, and a balanced speed profile using standard AC motors. The result is an unprecedented smoothness and quietness of operation.

Model AP-440

The new Model AP-440 provides the highest quality on the market for a full pallet load, with **speeds up to 40 bags per minute**. The main performance-enhancing feature of the AP-440 is the servomotor-driven bag pushers, which improve speed, flexibility and precision. Servomotors are also used on the newly-designed turner-indexer, ensuring more accurate bag positioning and better control, thereby

improving the quality of the finished pallet. Operations are now more intuitive with the new AP-440 and bag changeover is achieved in less than a minute. In addition, the AP-440 were designed to reduce the number of steps required for installation, resulting in a 50% decrease in installation and commissioning time that can now be completed within a single week.

Model AP-435

The model **AP-435** is designed for applications reaching up to **thirty-five bags per minute** on a regular 5-bag pattern. This high speed operation can be reached by using our innovative turning system called the « TWIN BELT ». This system uses two belts to turn the bags, one going faster than the other which will make the bags rotate 90 or 180 degrees without completely stopping them. This model includes two row pushers and a high speed elevator to attain such production capacity.

Model AP-425

The model **AP-425** is designed for applications reaching up to **twenty-five bags per minute** on a regular 5-bag pattern. This system uses the standard flaps overhead turning device capable of 90 and 180 degrees rotations providing gentle package handling and high accuracy. This model includes one row pusher and a two-speed elevator to achieve this production capacity.

Applications

The AP Series High Level Palletizer can palletize **bags, bales, bundles and cases**.



Features and benefits

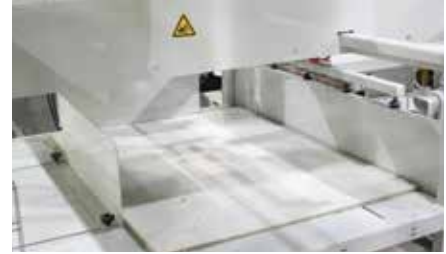
- All electric design for a better control of movements and for a smooth and quiet operation
- User-friendly PV 600 + color touch screen interface, with comprehensive adjustment and troubleshooting
- System requiring no manual adjustments. Multiple bag sizes / patterns can be PLC pre-programmed and used as needed
- No compressed air needed on the standard version*
- Versions for bags, bales and boxes
- “Total Control” harmonic motion
- Designed for harsh environments
- Multiple layout configurations

* Certain options may require the use of compressed air



Options

- Bag preparation systems (bag flatteners, square tube conveyors, etc.)
- Bag quality control systems (checkweighers, metal detection systems, product leak detection systems, etc.)
- Production Data Management System (PDMS)
- Bag accumulation and rejection systems
- Printer / Labeller
- Sheet dispensers, etc.



Slip sheet dispenser

Main modules



Servomotors are also used on the newly-designed turner-indexer, ensuring more accurate bag positioning and better control



Pallet elevator with integrated chain or roller conveyor and safety mechanical device enabling safe maintenance procedures



Pallet dispenser with large capacity pallet magazine and automatic fork-lift unstacking mechanism ensures accurate pallet positioning on the elevator

Production rate

Up to **40 BPM*** with model AP-440

Up to **35 BPM*** with model AP-435

Up to **25 BPM*** with model AP-425

*Depending on bag characteristics, pallet height, layout configuration, etc.

Technical data

Typical equipment dimensions*:	Length: 339" (8617 mm) Width: 243" (6159 mm) Height: 145" to 193" (3683 to 4902 mm)
Empty pallet size:	40" X 48" (1000 X 1200 mm) standard Other sizes available
Layer pattern size**:	37" X 37" to 54" X 54" standard (940 X 940 mm to 1370 X 1370 mm)
Pallet magazine capacity:	Approx. 90" (2285 mm) high stack or 900 lb (410 kg)
Load capacity***:	600 lb (275 kg) per layer / 4400 lb (1995 kg) (Optional)
Electrical requirements:	460 V / 3 Ph / 60 Hz (Other voltages available)
Ambient temperature:	40°F to 95°F (5°C to 35°C)

* Height varies depending on pallet load height

** Other sizes available

*** Heavy-duty version available for heavier pallets

For Model AP-440 specifications, please see AP-440 brochure.

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