



Food & Beverage

Automation with Industrial Automated Guided Vehicles (AGVs)



Applications

JBT can supply a full complement of solutions designed to move the raw goods, packaging and supplies, and finished products around your food processing facility.

Our food logistics AGVs are frequently used in applications such as:

- Storing raw materials in warehouse locations
- Delivering materials to production lines
- Loading and unloading batch retort sterilizers
- Pickups and drop offs at the end of line
- Automated trailer loading and unloading



Material Handling Made Easy

Handling foods and beverages can be a complicated affair. Orchestrating all the machines, inventory, people, and activities involved in your operation is not a simple task.

But having many moving parts doesn't mean accomplishing your work activities needs to be hard or overwhelming. You can outfit your entire operation – from JBT's impressive portfolio of JBT automated systems – to your exact needs.



Applications

Warehouse

1. Storage of raw material
2. Finished product
3. Work-in-process Interfacing with racking
4. Block stacks on the floor
5. Conveyors
6. ASRS, etc.

Production Lines

1. Delivery of raw material to the production lines
2. Movement of work-in-process during production process
3. Loading and unloading of automatic batch retorts

End of Line

1. Movement from the stretch wrapper to storage or shipping
2. Transport of finished product from the palletizers to the stretch wrapper
3. Delivery of empty pallets to the palletizers
4. Delivery of packaging materials (empty bottles, boxes, containers, etc.)

Shipping/Receiving Docks

1. Automated trailer unloading of raw material
2. Delivery of pallets to staging lanes at the shipping docks
3. Automated trailer loading of finished goods.



**JBT AGVs fill the labor gap
in today's tight market**

A Variety of Material Handling Solutions

At JBT we provide more than products – we provide solutions. We will gladly supply the appropriate AGV system for your application and business needs



Simulations

In order to optimize pallet movements, JBT can create a computer model of material flow. This simulation accurately predicts what can be expected of the AGV, regardless of movement intricacy. Both simple, A-to-B movements and fully integrated, complex systems can reap benefits from the simulation process.



Scalability

At JBT, we understand that automation is not one-size-fits-all, which is why we offer a range of system options. If you'd like to automate simple A-to-B movements, we can provide a stand-alone AGV. However, if your automation goals are more complex, we can also supply fully integrated systems, controlled by our SGV Manager software and compatible with your business systems (ERP, WMS, MES, etc.). Our range allows customers to start simple and expand in the future.



Savings

Automation with JBT robotic vehicles has always provided safe, precise, on-time delivery of materials in manufacturing and warehousing. Our commitment to the AGV industry shows in our dedicated customer service and innovative approach to system solutions. With this experience and our range of options, JBT will minimize your total cost of ownership and maximize your return on investment.



Why AGVs?

Reduced Labor Costs with fewer people operating fork trucks.

Improved Productivity allowing you to concentrate your labor force on tasks that add value to the products.

Reduced Product Damage with sensors and load protection devices which allow for precise and secure handling.

Reduced Facility Damage with accurate vehicle navigation and obstacle detection.

Improved Efficiency through seamless integration with production, ERP and WMS software, producing a smooth, just-in-time flow of materials.

Improved Safety with vehicles which move in a predictable, controlled manner with safety sensors for obstacle detection.

Improved Flexibility with tools to easily adjust vehicle guide paths and systems that can easily be expanded or even moved to another facility.

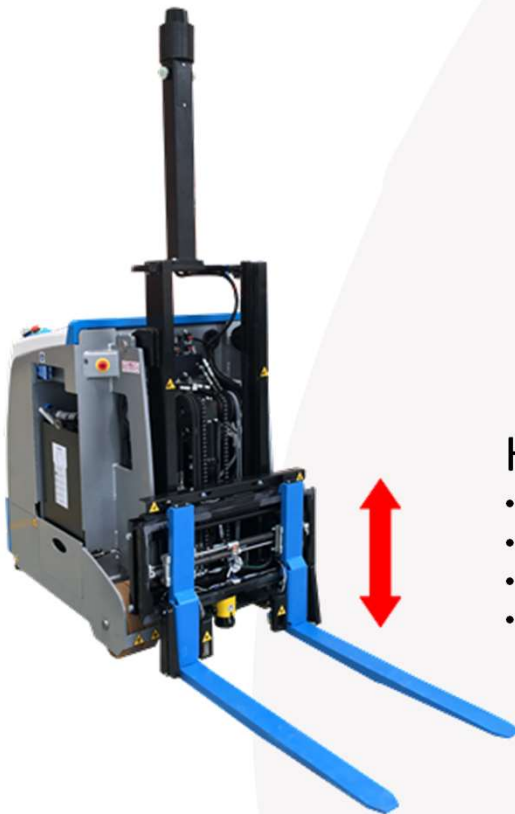
Improved Material Accountability with accurate tracking of all material movements.



Why AGVs?

Our line of attachment options* delivers:

- A varied degree of maneuverability
- AGVs capable of meeting your throughput requirements
- Customized solutions provided by standard vehicles

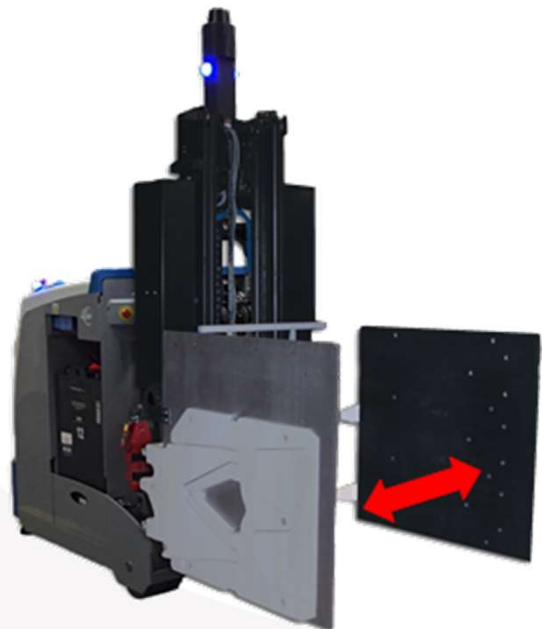


Hydraulic Lift

- Single- or multi-stage
- Slack chain protection
- Auto height calibration
- Multiple attachments

Box Clamp

- Multiple lift heights
- Ideal for un-palletized loads
- Opens and closes 12" to handle varied load sizes

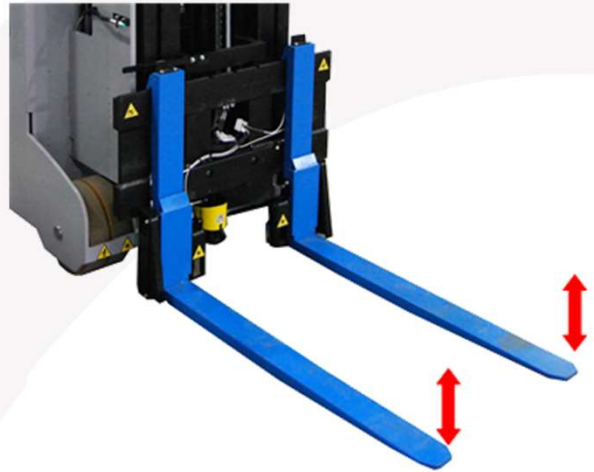


* Attachment options subject to change. Other selections may be available upon request.

Why AGVs?

Fork Tilt

- Hydraulic control
- +4/-1 degrees
- Ideal for trailer loading and pushback racking

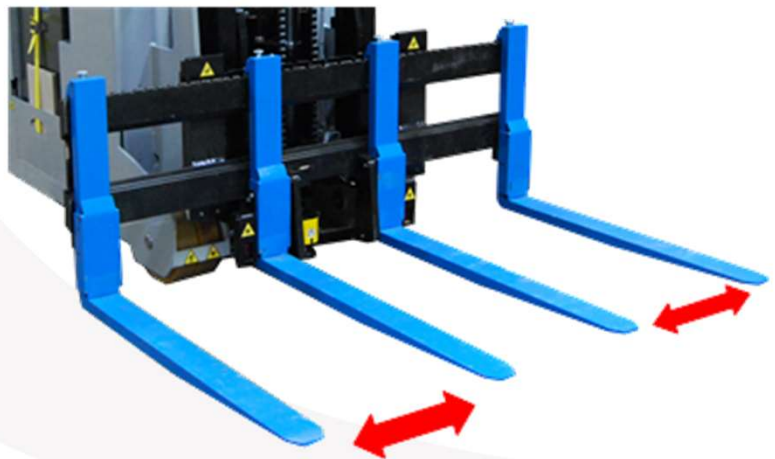


Side Shift

- Hydraulic
- +/- 3.1" shift
- Auto calibration
- Ideal for trailer loading

Multi Fork

- Four fixed forks
- Single double - 2 forks become 4
- Ideal for double load stacking



Vehicle Types



Counterbalance



Forkover



Single Conveyor



High Reach



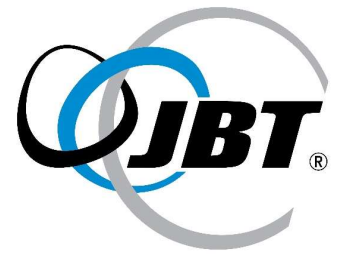
Outrigger



Drive-In Rack



Slip Sheet



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