Yale® Robotic Lift Trucks
Transform into an efficiency machine with robotic lift trucks.

You experience the pain every day, increasing demand and the desire for faster delivery times. As these issues continue to escalate, you feel the need to increase your labor force to maintain peak efficiency. This can result in significantly greater overhead, chipping away at your bottom line.

What if you could automate repetitive picking tasks and free up workers to take on more valuable roles?

With Yale® robotic lift trucks, you can. When equipped with robotic technology, Yale® lift trucks are transformed into automated solutions, allowing you to:

- Reduce operating costs
- Increase operational efficiency
- Minimize damaged goods and accidents

Yale® MPE080VG - Driven by Balyo
How does it work?

It’s simple. By adding robotic technology to standard production chassis, the Yale® MPE080-VG end rider, MO70T tow tractor, MC10-15 counterbalanced stacker and the NR/NDR035-045EB robotic reach become automated lift trucks, with smooth movement and controlled acceleration and speed. Relying on structural features such as walls, building columns or racks, the technology self-locates and navigates loads throughout your operation with ease, optimizing workflow.

Whether you want to manage a single truck or an entire fleet, Yale® robotic lift trucks have the flexibility to meet your operational demands. Additionally, they can interface with a range of operating systems, providing greater visibility to load movement for increased accuracy and efficiency.
Realize the benefits.

While logistics tasks will always be directed by people, robotic lift trucks can efficiently perform routine and repetitive tasks. Utilizing vertical or horizontal placement, robotic lift trucks can pick up, transport and drop off pallets independently and reliably, improving your bottom line.

**Reduce operating costs up to 70%**

Not only can robotic lift trucks help lower operating costs by improving labor productivity and reducing product damages and accidents, but will enhance the flow of your materials handling operation, ultimately increasing customer satisfaction.

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**Achieve cobotics**

With people and machines working side-by-side you can achieve a “cobotics” environment to enhance labor productivity, optimize workflow and help increase your bottom line.

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**Improve your cost structure**

When compared to automatic guided vehicles and laser navigated trucks, robotic lift trucks just make sense. You not only start off with a standard truck, which costs less, but navigational infrastructure and commissioning/start-up costs are much lower. See for yourself.
Flexibility at its finest.

With robotic lift trucks you can achieve scalable automation, covering a range of applications from low-level order picking to high-bay retrieval and storage. This provides the flexibility required to accommodate peak demand and the constantly shifting traffic patterns in your operations.

Navigation without infrastructure -
The robotic lift truck navigation system integrates easily into existing operations by mapping the physical structures and quickly accommodating changes in the environment. Creating and modifying driving paths is fast and simple.

Real-time interaction - By using a map of the environment, robotic lift trucks can locate themselves in real-time by comparing what the navigation laser detects with the reference map. This allows it to perceive and interact in real-time with its environment, making decisions autonomously.

Automatic or manual control - If you need to switch from automatic to manual control, you can. With the touch of a button, or by moving the tiller, the truck goes into manual mode, allowing an operator to take control and perform other tasks as needed.

Robot management and interface -
The robotic lift truck manager software provides overall management of robotic lift trucks in real-time. It controls traffic, assigns transport orders to individual robotic lift trucks and interfaces with systems such as ERP (Enterprise Resource Planning) and WMS (Warehouse Management System), or equipment such as automatic doors, conveyors and production machines.

HMI - Human Machine Interface

The Driven by Balyo user interface with touch screen shows ongoing missions, communications and safety modules. Can be used to trigger missions manually by operator, or checkup hardware status.
Yale® robotic lift truck choices.

End rider
Yale® MPE080-VG

- Transport single or double pallets
- Handle loads to marshalling/staging areas
- Easily transfer over long distances
- Bar code scanner confirms appropriate pallet
- Driven by Balyo

Tow tractor
Yale® MO70T

- Standard trailer handling configurations
- Sequencing in assembly operations
- Kitting separate items to be supplied as one unit
- Stock replenishment and material hauling
- Driven by Balyo
Counterbalanced stacker
Yale® MC10-15

- Deposit or remove pallets from 2nd or 3rd level
- Handle smaller width pallets
- Stack or unstack loads
- Deposit or remove pallet from shrink wrap station
- Driven by Balyo

Robotic reach
Yale® NR/NDR035-045EB

- Double-deep reach capabilities
- Deposit or remove pallets from as high as 30 feet
- Maximize vertical storage space
- Ideal fit for distribution centers
- JBT Intelligent
For more information, or to find your nearest Yale® dealer, go to Yale.com.