



**STRONG PARTNERS.  
TOUGH TRUCKS.™**

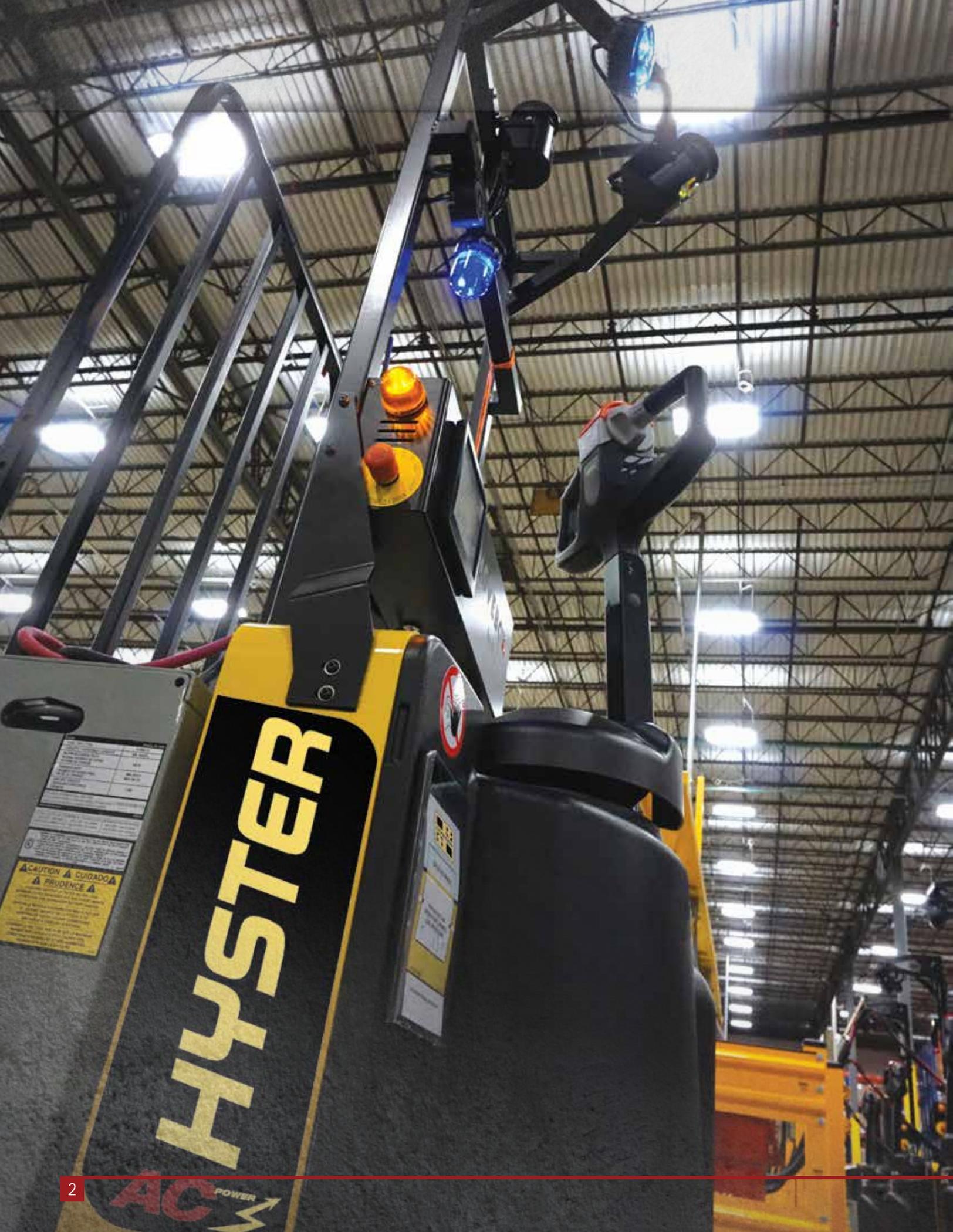
**DRIVEN**  
BY **BALYO**



## ROBOTIC LIFT TRUCKS

B80Z<sup>HD</sup> & L05.0-7.0T

[WWW.HYSTER.COM](http://WWW.HYSTER.COM)





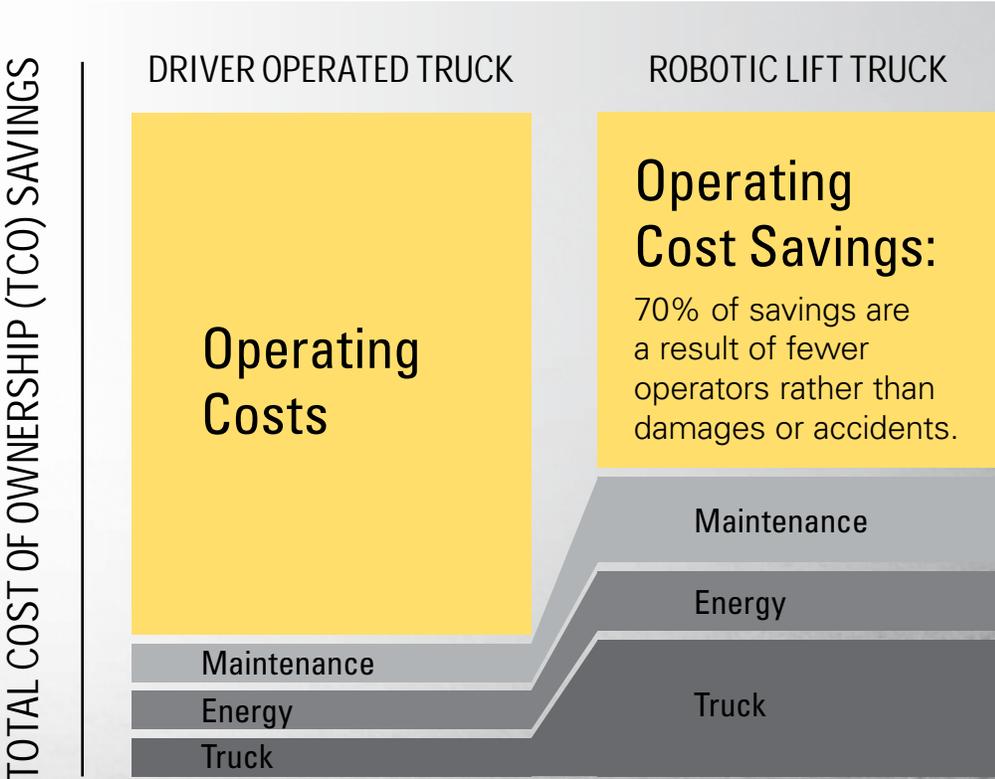
By combining the Hyster® End Rider and Tow Tractor with Balyo’s navigation technology, the B80Z<sup>HD</sup> and the L05.0T become robotic lift trucks. The infrastructure-free navigation relies on structural features such as walls, columns or racks, to make the Driven by Balyo technology flexible, scalable, and economical.

The Balyo architecture can manage a single robotic lift truck solution as well as a whole fleet, and provide a range of potential interfaces with the environment (screen commands, fixed call buttons, Warehouse Management System calls).

The lift truck offers a reliable solution to help optimize workflow, provide flexibility and achieve significant cost savings. Reliable Hyster trucks combined with Balyo’s navigation technology allows humans, goods and machines to work together in unison.

WHY ROBOTIC LIFT TRUCKS?

While logistics tasks will always be directed by people, this new generation of robotic lift trucks can perform repetitive, low value added materials handling tasks reliably and independently. In addition to reducing labor costs, these trucks help lower expenses by reducing damage to goods, and increase productivity by putting people at less risk of physical strain by being assigned uncomfortable tasks. Consistent timing of tasks improves the flow of your materials handling operation.



## > INTELLIGENT OPERATIONS

### HYSTER® DEALER NETWORK—PAIRED WITH DRIVEN BY BALYO TECHNOLOGY

By combining the unique Driven by Balyo technology with Hyster expertise in material handling equipment, we can provide high-quality, standard lift trucks with no added infrastructure required for easy integration into existing operations. The comprehensive Hyster dealer network, aftermarket services and support along with Driven by Balyo technology provides a flexible, fully scalable solution for your business.

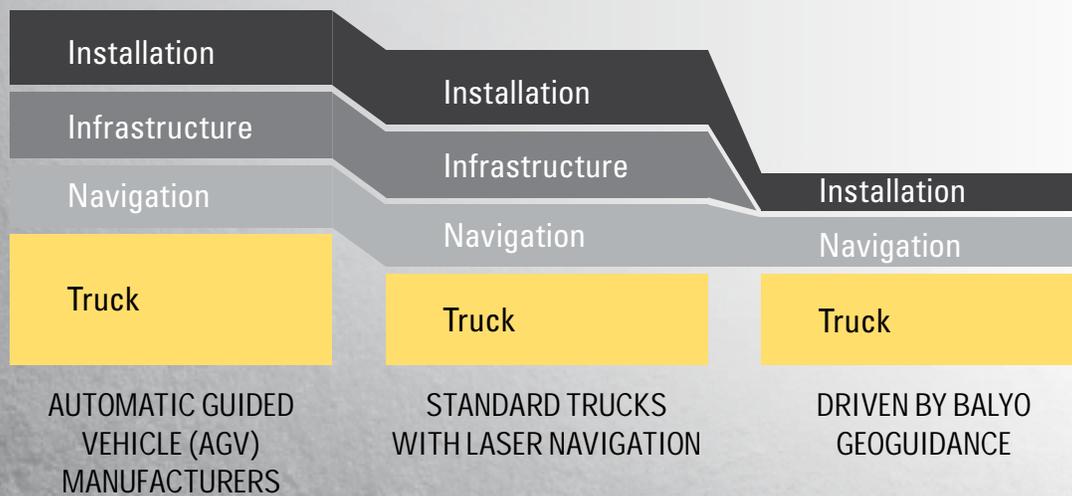
### RETURN ON INVESTMENT (ROI): RAPID PAYBACK AND SAVINGS

Our robotic lift trucks range offers reliable solutions to help optimize in-house material flows and achieve cost savings.

- Reduced installation costs
- Massive savings on operating costsscalable solution for your business.

Automatic Guided Vehicles start with custom, purpose-built trucks; then, when navigational infrastructure is added, costs skyrocket. Standard trucks are much more cost-effective than custom, and when the Driven by Balyo technology is added, there is no additional cost for infrastructure. Therefore, our robotic lift trucks are the intelligent choice.

IMPROVED COST STRUCTURE



## WHAT IS COBOTICS?

Called “cobotics,” the collaboration between people and robotic lift trucks allows both to work and interact in a reliable manner. The Hyster, Driven by Balyo robotic lift trucks are equipped with intelligent features allowing them to operate in the same environment alongside people and other vehicles without any additional infrastructure. They navigate using existing structural features such as walls, racking or columns: a solution that is economical, easy and quick to install and can easily accommodate future changes to routes or activities.



# > FLEXIBILITY

## NAVIGATION WITHOUT INFRASTRUCTURE

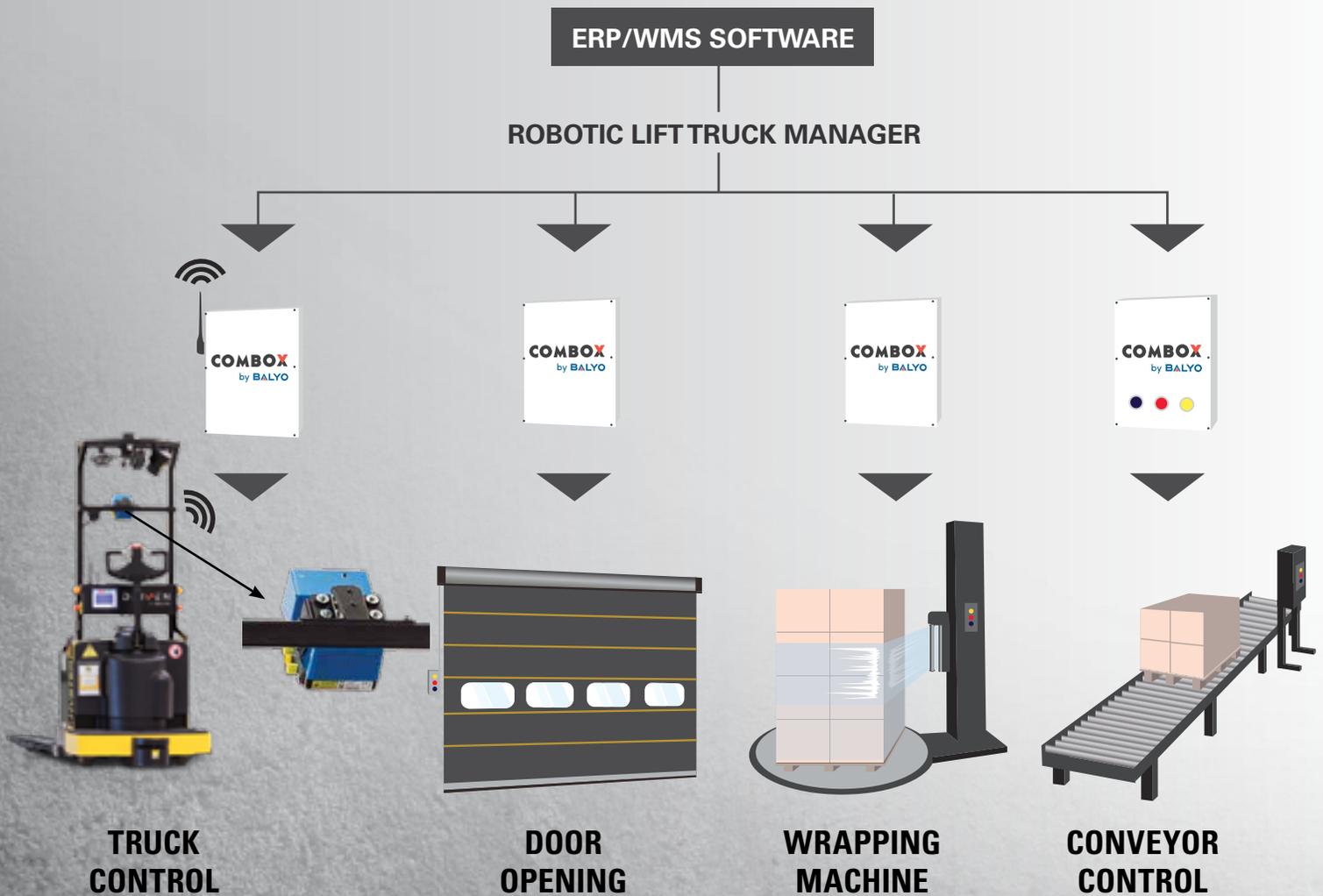
The innovative Driven by Balyo navigation system integrates easily into existing warehouses, without the need for any reflectors, wires or magnets.

## EASY TO INSTALL

The system maps existing physical structures and quickly accommodates changes in the environment. Creating and modifying driving paths is fast and simple to implement.

## REAL-TIME LOCALIZATION

Robotic lift trucks use a map of the environment to locate themselves in real time by comparing what the navigation laser detects with the reference map. They can perceive and interact in real-time with their environment, taking decisions autonomously.

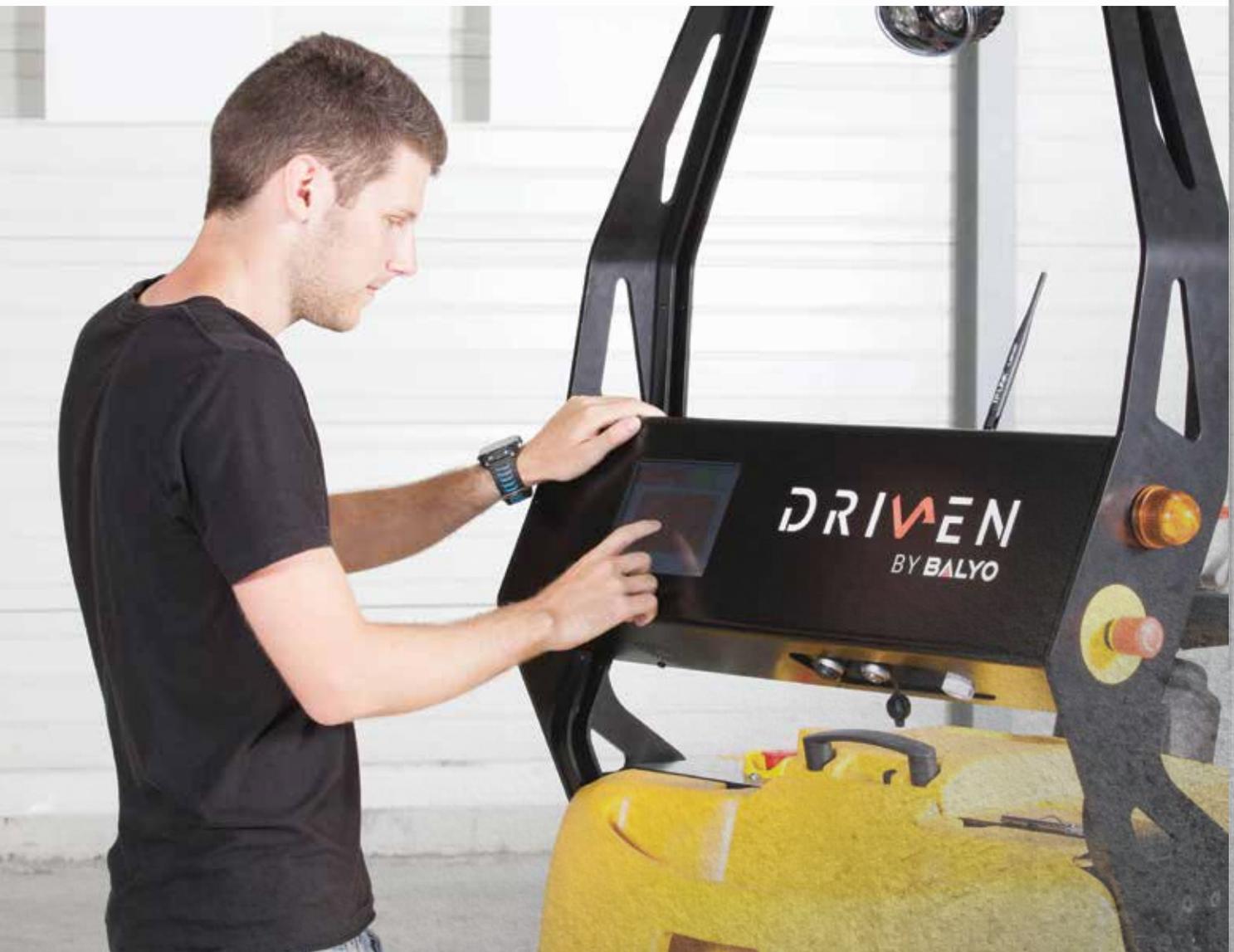


## **SUPERVISION & INTERFACE**

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

## **DUAL MODE: AUTOMATIC OR MANUAL CONTROL**

Based on Hyster standard lift trucks, our robotic technology guided versions are equipped with dual operating modes (manual & automatic). If needed, an operator can take manual control of the robotic lift truck to perform ordinary tasks.



> DEPENDABILITY



Geoguidance laser

Curtain laser: obstacle detection

Optional bar code reader

User interface equipped with intuitive touch screen

Visual and acoustic warning indicators

Emergency stop buttons

Tiller: simply activating the buttons or the tiller itself stops the truck immediately and returns it to manual mode

Forks-first laser scanner: environment recognition, obstacle detection

Chassis-first laser scanner: obstacle detection, load recognition for stock line management

# END RIDER

Hyster® B80Z<sup>HD</sup>, Driven by Balyo



- Single or double pallet handler
- Handling loads in marshaling areas
- Transferring loads over long distances
- Bar code scanning

# TOW TRACTOR

Hyster® L05.0-7.0T, Driven by Balyo



- Standard trailer handling
- Sequencing
- Kitting
- Supply replenishment & waste removal



# INNOVATIVE TRUCKS ENGINEERED TO MEET THE MOST DEMANDING APPLICATIONS

For more than 80 years, Hyster has been conquering the world's most demanding applications. In the 1920's Hyster started as a manufacturer of lifting machines used in the rigorous logging industry of the United States' Pacific Northwest. A few years later the first forklift trucks were invented and the Hyster brand quickly gained its reputation for rugged quality. Hyster® lift trucks are designed to lower your cost of operations. Every truck we make — gasoline, LPG, diesel and electric — is purpose-built to excel in its application. Every truck is also backed by an unmatched network of specialists.



**Dealer Network** — Our Dealer Network can offer the expertise of fleet managers, parts suppliers, capital procurement specialists and trainers. Carefully chosen dealers fully understand customer applications, assist in selecting the right lift truck and provide fast, reliable support.



**Hyster Fleet Services** — Even if you operate other brands, we can manage your maintenance and replacement plan. We can offer complete fleet analysis, fleet history summary and a cost-effective proposal for replacement and scheduled maintenance.



**Parts** — With genuine Hyster® replacement parts and UNISOURCE™ parts for all makes of lift trucks, we are your one-stop source for lift truck parts. In fact, we offer more than 7 million part number crosses for most brands of materials handling and other in-plant mobile equipment.



**Rental Products** — When leasing or buying isn't a practical option, we have access to more than 14,000 units for short- and long-term rental. We'll help you maintain output in a cost-effective manner.



**Hyster Capital** — We can arrange solutions for special financing requirements, taking the difficulties out of buying the equipment you need. Whether you purchase or lease a new or used lift truck, Hyster Capital offers superior service and competitive rates.



**Special Products Engineering Department (SPED)** — Different materials require different handling. That's why we can work with you to customize your lift trucks. From strobe lights to specially made forks, SPED has the tools to help you get the job done right.



**Operator Training** — Proper education in operating lift trucks minimizes the risk of injuries due to accidents while increasing productivity. Hyster offers OSHA-compliant materials that support the training of qualified operators.



**Service** — Your local Hyster® dealer offers a flexible, customized and comprehensive maintenance plan based on each lift truck's operation environment. Hyster service programs offer scheduled inspections and maintenance, along with quick, responsive service dispatched to your location.

# DRIVEN

BY BALYO

[www.balyo.com](http://www.balyo.com)



Hyster Company  
P.O. Box 7006  
Greenville, North Carolina  
27835-7006  
Part No. BALYO/B  
6/2016 Litho in U.S.A.

Visit us online at [www.hyster.com](http://www.hyster.com) or call us at **1-800-HYSTER-1**.

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