

E30-40XN SERIES



STRONG PARTNERS. TOUGH TRUCKS.™

COUNTERBALANCED ELECTRIC, CUSHION TIRE



E30-40XN SERIES

The highly durable and ultra reliable Hyster® E30-40XN Series is the next generation of electric lift trucks. It offers numerous advantages in quality and ergonomics, making it one of the most operator-friendly AC-powered lift trucks in the world. Setting the standard in electric lift trucks, it lowers overall operating costs and maximizes productivity. This is the workhorse you can count on day in and day out to get the job done.

A newly designed operator module provides a comfortable operator compartment that features industry-leading floor space and a relocated multifunction display for enhanced visibility and precise pallet control. Leading the way in comfort and performance, the Hyster E30-40XN is among the most productive electric lift trucks in the industry. Whether it's increased speed or longer battery life, this truck delivers the power your application demands.

The Hyster E30-40XN delivers more bottom-line savings by increasing uptime and productivity. A redesigned steel hood provides maximum battery service access. By utilizing AC motors and transistor controller technology for all traction and hydraulic systems, we've reduced the frequency and cost of maintenance. This is one of the hardest working trucks in the business and one you can depend on time and time again.

■ What's New with the E30-40XN Series

- High thermal capacity AC traction motors
- Vehicle System Manager
- Increased-efficiency electronic traction and hydraulic controllers
- Electronics, cooling fans and heat sink
- Stamped steel hood design
- AC hydraulic pump & motor standard
- O-Ring Face Seal Fittings (ORFS)
- LED and Halogen light options
- CANbus communications



■ Tough enough to take on just about anything, the E30-40XN Series is powered by a 36- or 48-volt AC system (optional) and is ideal for warehouse, retail or industrial applications.

- Mesh entry step, floor plate and floor mat
- Operator convenience station
- Multifunction display



RAISING THE STANDARD

A Overhead Guard

The unique grid-style pattern improves visibility while protecting operators and strengthening the truck's structure. The front, curved OHG leg design affords greater shoulder clearance for easier operator entry and exit.

B LED Lights

The optional Hyster® LED work/brake/backup tail lights rarely need replacing. LED lights have a polycarbonate lens that meets the FDA requirement for use in food applications.

C Fatigue-Reducing Operator Compartment

Ergonomically designed operator compartment features include: increased foot space and optimized step height for easy entry and exit; fully adjustable, full suspension seat (optional) with low whole body vibration levels; adjustable steering column with (optional) memory tilt, telescopic steering wheel and (optional) low effort e-hydraulic controls.

D Driver's Seat

The standard non-suspension and suspension seats (optional) are easily adjusted to provide a more customized, comfortable ride.

E Battery Cover

New stamped steel hood design for durability and protection. The hood latch handle is easily accessible from either side of the truck.

F Pacesetter VSM

The brain of the truck is a computer that manages all vehicle systems to optimize performance and significantly increase overall reliability and enhance diagnostic capabilities for maximum uptime.

G Hyster Stability System

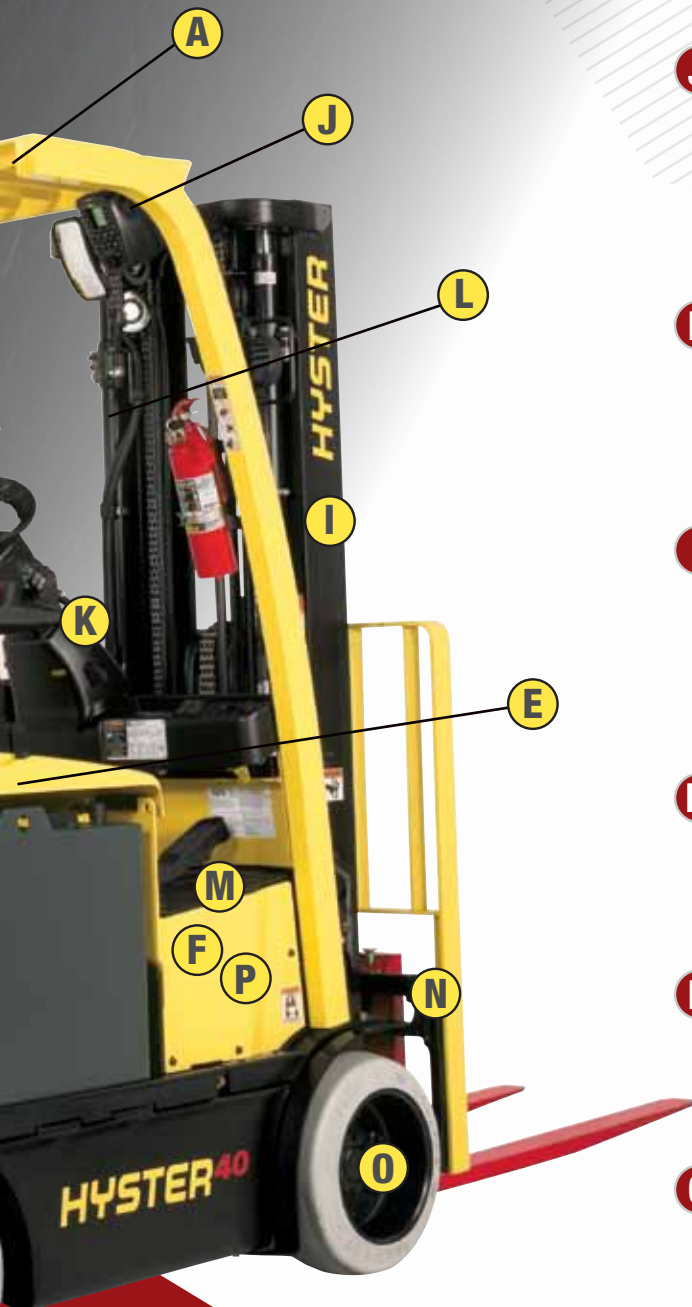
The system reduces truck lean in turns, improving lateral stability. Innovative steer axle mounting design allows for superior travel over uneven surfaces.

H Steer Axle

The elastomeric-mounted, Hyster-designed cast ductile iron steer axle with transverse, double-acting hydraulic cylinder, tapered roller spindle-support bearings and non-adjustable tie rods provides maximum durability and superior steering control for easy maneuvering and low maintenance.



Trucks shown with optional equipment.



I Exclusive Mast

High strength, hot-rolled steel mast channels and flush-faced design, improve capacity retention at high lifts. Compact cast steel cross members optimize visibility and rigidity. Six canted 3-inch, full-face load rollers roll on the web and the flange simultaneously, eliminating the need for side thrust rollers or wear plugs.

J Multifunction Display

The location of the multifunction display provides maximum forward visibility and ease of operation. It is within easy reach of the operator and supervisor for quick access to truck functions, diagnostics and troubleshooting.

K Tilt Steer Column

The infinitely adjustable tilt steer column with optional telescopic column and tilt memory accommodates operators easily. Assisted by a gas-spring and an easy-to-reach lever, obtaining your preferred position is simple.

L Hassle-Free Hydraulics

Use of leak-free O-ring face seals helps maximize uptime. In-tank filter increases hydraulic fluid filtration by 60 percent for particles down to 10 microns, significantly extending component life and creating a cleaner overall operation.

M Removable Floor Plate

Two-piece steel floor plate and side plates are easily removed to provide incredible service access. A molded rubber floor mat seals the floor area to reduce noise and vibration for a more comfortable ride.

N Integral Sideshift

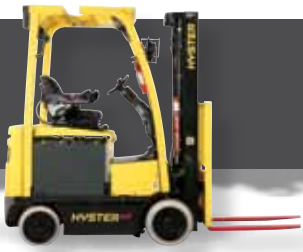
The optional Hyster-designed integral sideshift provides excellent visibility and affords greater capacities than carriage-mounted sideshifts.

O Heavy-Duty Drive Axle

The full floating design of the drive axle lets the axle housing, not the shafts, carry the weight of the load helping to extend the service life. Hyster premium self-adjusting brakes provide excellent inching and stopping power. Power-assisted braking provides improved brake life with reduced operator effort.

P AC Motors

The brushless AC traction and hydraulic motors, powered by transistor controls are durable enough to handle your toughest duty cycle with reduced maintenance costs and enhanced productivity.



DEPENDABILITY

There's no quit in a Hyster® Lift Truck.

Hyster Company has a history of more than 80 years spent engineering and manufacturing some of the most reliable and productive lift trucks on the market. The Hyster E30-40XN Series continues that legacy with a lift truck that was designed and built to be the most dependable in the marketplace.

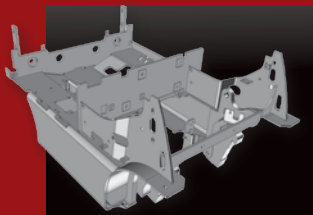
■ Thermal Management System

- *The Hyster-designed thermal management system continuously monitors the E30-40XN Series' controller and motor temperatures. Upon identifying an irregularity, it protects the component by automatically adjusting truck performance.*
- *Large air inlet ports in the rear of the truck are protected and strategically positioned to provide fresh air intake for controller cooling.*
- *A heat sink is used to draw heat away from the motor controllers and cooling fans are positioned on top of the heat sink.*

■ World-Class Dependability

- *A stamped steel hood provides a durable, long-lasting exterior that will not crack. The unitized design and welded steel construction of the frame provide better rigidity and excellent protection for the internal components. The exceptional strength and durability of the frame are designed and tested using computer-generated Finite Element Analysis.*
- *The Hyster-designed cast ductile iron steer axle provides maximum dependability. Its transverse, double-acting hydraulic cylinder, tapered roller spindle-support bearings and non-adjustable tie rods provide maximum durability with superior steering control and load handling.*
- *The full floating design of the drive axle lets the axle housing, not the shafts, carry the weight of the load, enhancing dependability and reliability for a longer service life.*
- *Hyster brakes are self-adjusting and self-energizing with a heavy-duty backing plate to provide optimal performance and lengthened service life.*

■ Maximum Durability



Frame



Axle



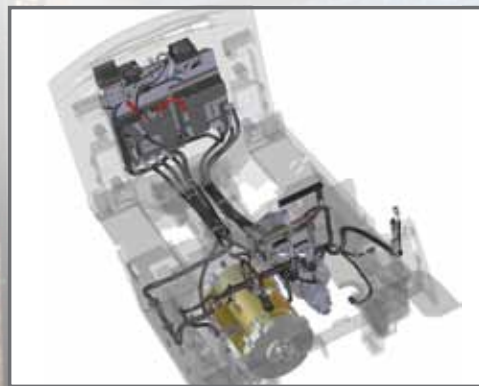
Drive Axle

■ Industrial-Strength Electronics

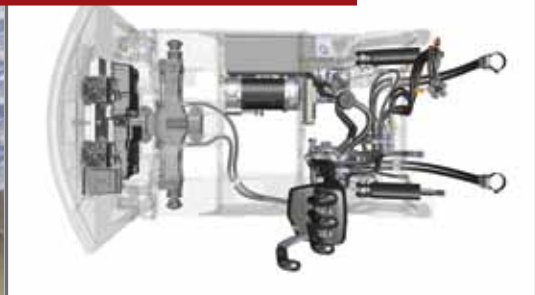
- CANbus communications network reduces wiring complexity, providing superior dependability.
- Double-sealed electrical connectors provide a waterproof connection to prevent contamination.
- A smart, one-way routing path for wire harnesses ensures consistent high quality assembly while increasing durability and simplifying maintenance when needed.
- Non-mechanical, Hall-Effect sensors and switches are designed to outlast the life of the truck.
- Pacesetter VSM (Vehicle System Manager) industrial onboard computer manages truck operations to maintain world-class dependability to maximize uptime.

■ Hassle-Free Hydraulics

- Leak-free O-ring face seal fittings reduce leaks for enhanced reliability.
- A 10-micron, high performance, in-tank filtration system captures 99.5 percent of hydraulic system debris, significantly extending component life.
- Intelligent hose routing and reduced complexity provides a simpler and more robust hydraulic system.



E30-40XN Electrical System



E30-40XN Hydraulic System

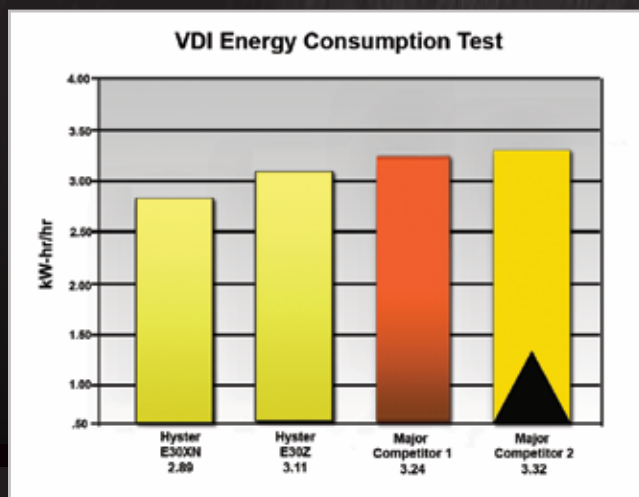
LOWER COST OF OPERATIONS

Little to own. Lots to appreciate.

The Hyster® E30-40XN Series lowers your cost of operations by delivering increased productivity, lowered energy consumption, advanced dependability and reduced maintenance costs. The standard AC traction and hydraulic motors are unsurpassed in the materials handling industry so they spend more time working and less time being worked on.

■ Brushless AC Technology

- The E30-40XN is a full AC product, utilizing AC traction and hydraulic motors eliminating the motor brushes and doing away with the commutator and its related parts and service costs.
- The hydraulic and steering functions are combined into one pump and motor assembly, decreasing the number of components and reducing the chances of failure.



According to the VDI Energy Cycle Standardized Test, the E30-40XN Series provides the lowest energy consumption; it's also more energy efficient than our previous model. Better energy utilization provides longer run times, saves money and reduces impact on the environment.



■ Vehicle System Manager

- The Pacesetter VSM monitors and communicates the truck's multiple systems via the CANbus communication system, keeping a constant check on the unit and vital components.
- All vehicle systems are managed electronically to optimize performance and significantly increase overall reliability and enhance diagnostic capabilities for maximum uptime.
- The VSM enables customization of truck performance to suit application needs.

■ Superior Serviceability

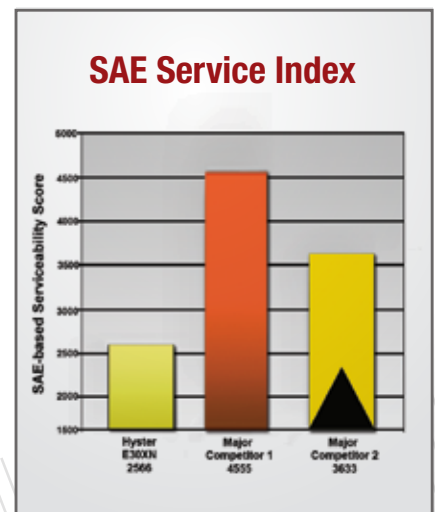
- The E30-40XN Series utilizes CANbus communications to simplify wiring and improve serviceability.
- State-of-the-art onboard diagnostics reduce repair time and minimize expensive parts swapping.
- A two-piece floor plate and side plates can be easily removed for unrestricted service access. The lift out floor plates require no tools, for quick and easy daily operator checks.
- Easy battery access is provided via the gas spring-assisted hood and quick release handle. The rear counterweight service cover is easily removed by loosening two screws.



Easy-to-remove floor plates allow full service access for simplified daily maintenance.



A gas spring-assisted hood and quick release handle make battery access easier than ever.



This chart represents Society of Automotive Engineers (SAE) based rating evaluating speed and difficulty of over 30 service routines. Lower score indicates easier serviceability.



ERGONOMICS

Superior comfort comes standard.

The superior ergonomic design of the E30-40XN means greater comfort for your operator. Enhanced ergonomics combined with customizable performance characteristics increase overall productivity and uptime.

■ Superior Operator Compartment

- A 16 percent increase in floor space – largest floor space for its capacity among leading competitors – promotes improved operator comfort, while the widened overhead guard legs allow for greater visibility.
- The Operator Convenience Station features an industry-leading dash storage area that provides the operator with a productive work environment and dedicated storage areas for markers, cell phone, pick tickets, beverages and almost anything else an operator needs.
- The easy-to-use 3-point entry design of the operator compartment uses a large molded hand grip, hip restraint and an open non-slip lowered step height to minimize muscle and joint strain during entry and exit.
- Four different seat options and adjustable features allow you to customize for a superior level of comfort. The optional full suspension seat offers adjustable weight control, easy fore/aft adjustment and an adjustable seat back angle for a higher level of comfort.



■ Hydraulic Controls

- *Multiple configurations employ seat side hydraulic levers or TouchPoint mini-levers to provide unsurpassed, low effort, tactile control of all hydraulic functions.*
- *Optional Electro-Hydraulic Controls with TouchPoint mini-levers provide precise fingertip control of all hydraulic functions. An adjustable armrest with palm rest, mounted on the operator seat, positions the mini-levers in the optimal position.*
- *The armrest is cushioned and contoured to provide full forearm support. The hydraulic functions, seat side directional control switch, horn and battery disconnect button are all incorporated in the armrest and designed to maximize operator comfort and ease of use.*

■ Low Effort Operation

- *The Automatic Park Brake Option automatically applies the parking brake when the truck is stationary and releases it when the accelerator pedal is depressed. Power-assisted braking improves brake life while reducing operator effort.*
- *The standard 12-inch steering wheel with integrated spinner knob reduces fatigue while providing more knee room and goes lock-to-lock in just four turns for superior efficiency, maneuverability and control.*
- *An infinitely adjustable tilt steer column provides increased comfort while minimizing fatigue. The optional telescopic steer column with tilt memory provides enhanced adjustability to accommodate the full operator size range.*
- *Improved brake pedal layout allows actuation with either foot and the Auto Deceleration System significantly reduces operator fatigue.*
- *Rear drive handle (optional) is excellent for reverse driving while giving ready access to the auxiliary horn button for use when approaching cross-aisles and pedestrian traffic areas.*



ENHANCED PRODUCTIVITY

Only 24 hours in a day. Make the most of them.

The Hyster® E30-40XN works hard, longer and faster without compromising safety to make it one of the most productive lift trucks in the industry. The end result is a lift truck that increases throughput and sales volume while reducing operating costs.

■ Superior Operator Control

- Mast provides fast lift and lower speeds combined with superb visibility.
- The optional Hyster-designed integral sideshift provides excellent visibility and affords greater capacities than carriage mounted sideshifts.
- Low effort ergonomics and intuitively located controls provide superior operator comfort, minimizing fatigue and maximizing productivity.
- The seat side directional control and the Hyster-exclusive MONOTROL® pedal each provide for quicker, smoother control of travel speed and direction, improving operator efficiency and bolstering productivity.
- On-demand hydrostatic steering provides low effort steering and superior control with reduced noise.
- The multifunction display features a large, LCD backlit screen that displays status codes and a warning light for quick and easy diagnostic readings.

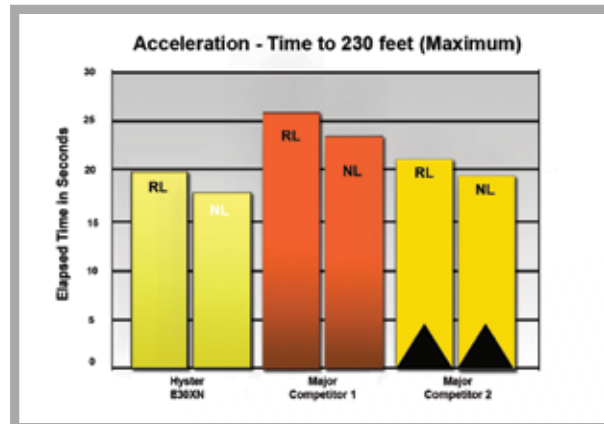
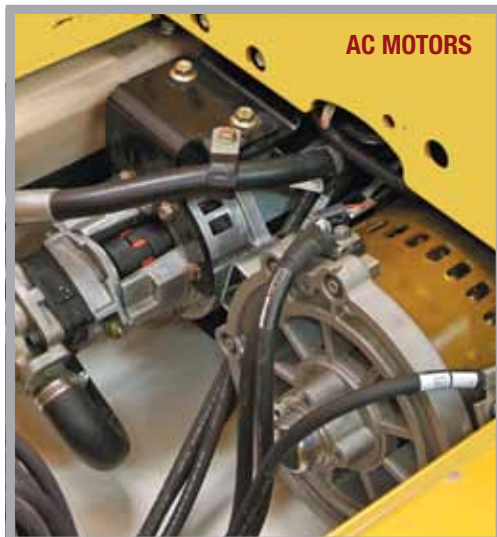


■ Performance Modes

- An adjustment of customizable performance parameters to match your application needs is accessible via the multifunction display and technician password protection.
- A significant increase in loaded travel speeds and acceleration rates beyond the standard setting is possible when the “Extended Shift” setting is turned off.
- Our standard “Extended Shift” AC controller setting provides the optimum balance between performance needs and battery shift life.

■ AC Technology

- It delivers quick and smooth changes in travel direction and offers precise speed control with excellent acceleration thereby significantly increasing productivity potential.
- The standard “Extended Shift” feature allows enhanced run time without recharging over longer periods.
- It delivers heightened performance on ramps when “Extended Shift” setting is turned off.
- The Hyster-designed thermal management system maximizes performance during continuous operation, while preventing damage to components due to heat.



With an industry leading acceleration rate, the Hyster E30-40XN offers greater productivity.

STANDARD FEATURES AND OPTIONS



STANDARD EQUIPMENT

- 2-Stage Limited Free Lift (LFL) Mast with Maximum Fork Height of 127" (3232mm)
- 5° Forward and 5° Back Mast Tilt
- 35.7" (906mm) Wide Class II Hook-type Carriage with 48" (1220mm) High Load Backrest Extension
- 42" (1067mm) Long Forks
- Smooth Tread Rubber Drive Tire and Steer Tire
- Battery Compartment Size – 27.6"
- Lift Out Battery Extraction
- 36-Volt Electrical System
- Standard Construction
- UL Classification Type "E"
- 12" Steering Wheel with Integral Spinner Knob
- Non-Suspension Vinyl Seat
- Foot Applied / Hand Released Park Brake
- Key Switch Start
- 88.5" Grid Style Overhead Guard
- MONOTROL™ Foot Direction Control
- 3-Function Hydraulic Control Valve with Seat Side Mechanical Levers
- AC Traction and Pump Motors (Completely Brushless)
- Transistor Drive and Pump Control
- Advanced VSM (Vehicle System Manager)
- Progressive Thermal Management System
- Fully Integrated CANbus Communication
- On-Demand Power Steering
- Hyster Stability System
- Power Assist Braking
- ADS (Auto Deceleration System) with Regenerative Braking
- Multifunction Display
 - Battery State of Charge with Low Battery Lift Interrupt
 - Hour Meter
 - Performance Mode Indicator
 - Fault Indicator (Audible & Visible)
 - 4 Operator Selectable, Programmable Performance Modes
- Easy Ingress / Egress with Optimized Step Height and Contoured Handhold
- Operator Convenience Station - Storage Areas, Beverage & Clipboard Holders
- Adjustable Tilt Steering Column with Low Profile Cowl for Excellent Visibility
- Anti Cinch Operator Restraint System
- Cushioned Floormat
- Static Strap
- Tow Pin
- Seaside Power Disconnect Button
- On-Board Software
 - Program, Test & Diagnose
 - Password-Protected
- Electronic Horn with Integral Relay (Long Life / No Adjustments)
- 24-Month / 4,000-Hour Powertrain Warranty
- 12-Month / 2,000-Hour Full Truck Warranty
- Operating Manual

OPTIONAL EQUIPMENT

- Side Extraction Battery Removal with Rollers
- 48-Volt Electrical System
- Rapid/Fast Charging Configuration
- Cooler/Freezer Package
- UL Classification Type "EE"
- Available with 2-stage Limited Free Lift (LFL) and 2 or 3 stage Full Free Lift (FFL) Masts
- Carriage with Integral Sideshift
- Mast Tilt Option – 10° Forward / 5° Back
- Return to Set Tilt
- Accumulator
- TouchPoint™ Hydraulic Mini-levers with Fully Adjustable Armrest
- 4-Function Hydraulic Control Valve
- Non-Marking, Rubber, or Lug Tread Tires
- Non-Suspension Seat (Cloth)
- Full Suspension Seat (Vinyl or Cloth)
- 86.5" Grid Style Overhead Guard
- 83.5" Flat Plate Overhead Guard
- 88.5" Drive-In Rack Grid Style Overhead Guard
- Keyless Start (with Auxiliary Key Switch)
- Seat Side Directional Control
- Automatic Electro-Mechanical Park Brake
- Telescopic Steering Column with Tilt Memory
- Various Light Packages:
 - Two LED Brake / Tail / Back-Up Lights
 - Two Front and One Rear Work Lights (LED Plastic Lens or Halogen Glass Lens)
 - Full Light Package - Two Front, One Rear Work Light (LED Plastic Lens or Halogen Glass Lens) and Two LED Brake / Tail / Back-Up Lights
- Audible Reverse Activated Alarm
- Visible Amber Strobe Light - Continuous Activated, Overhead Guard Mounted
- Rear Drive Handle with Integrated Horn Button
- Mirrors – Rear View or Panoramic
- Load Weight Indicator
- Impact Monitor
- Operator Password
- Operator Daily Checklist
- System Monitor – Hydraulic Low Fluid Level Indicator and Hydraulic Filter Service Indicator
- Hydraulic Attachment Extension Tubes with Quick Disconnect Fittings
- Fire Extinguisher – 2.5 lb. Dry Chemical

It's not just about the lift trucks.

Any company worth its weight knows success has just as much to do with the support before and after the sale as the sale itself. We pride ourselves on being more than just a lift truck manufacturer. Through our Dealer Network, we're also fleet managers, parts suppliers, capital procurement specialists and trainers. You'll find that when it comes to service, we do it all.

Hyster Fleet Services

As much as we'd like for your entire fleet to be Hyster, we know that's not always the case. But just because you also operate other brands doesn't mean we can't manage your lift truck maintenance and replacement plan. We can analyze your current fleet or provide a summary of your fleet history and a cost-effective proposal for replacement and scheduled maintenance of all your vehicles. Once this initial review is complete, we'll continue to monitor your fleet to ensure it's performing optimally.

UNISOURCE™ Parts Program

In addition to providing fleet management for a variety of brands, we can also serve as your source of parts for all your lift trucks. With the Hyster UNISOURCE parts and service program, we offer approximately two million part number crosses for most brands of materials handling and other in-plant mobile equipment. UNISOURCE also has remanufactured parts that provide the same quality and guarantee but at a lower price. Plus, partnering with today's best-known suppliers to the lift truck industry, we stand behind our replacement parts with one of the strongest warranties in the industry.

Rental Products

At Hyster Company, we're always looking for ways to help you keep your productivity up. Through the Hyster Dealer Network, you can access rental equipment for the times when leasing or buying isn't a practical option. Your local Hyster Dealer has access to over 14,000 units that are available for short or long-term rental. Whether you need one truck to substitute for a vehicle that's being serviced or several lift trucks to accommodate seasonal changes in your business, we'll help you maintain output in a cost-effective manner.

Hyster Capital

We know that financing new additions to your fleet can sometimes be challenging. That's why your Hyster Dealer has a long list of ways for you to fund your purchase. We are skilled in arranging 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 better service and competitive rates, ensuring you receive the value you deserve.

Special Products Engineering Department (SPED)

In a perfect world, every application could be handled with a standard lift truck. However, in the real world, different materials require different handling. That's why Hyster Company's Special Products Engineering Department works with you to customize* your lift trucks. From strobe lights to specially made forks, SPED can provide you with the tools you require to get the job done right.

*May be subject to an additional charge. Contact your local authorized Hyster Dealer for more information.

Automated Warehouse Solutions

As society's technological capabilities advance, we strive to find practical applications. One of our most recent innovations in that pursuit is our development of automated warehouse solutions. We can help you determine if your operation would benefit from this type of system, which improves inventory accuracy, warehouse productivity and safety records, as it reduces maintenance and overtime.


Operator and Service Training

Hyster Company recognizes that proper training is a key element of a profitable company. That's why your local authorized Hyster Dealer offers a training program for your lift truck operators as well as those who maintain your vehicles. Proper education in running and servicing lift trucks cuts down on the number of repairs and risk of injuries due to accidents while increasing productivity. All of our trainers are professionals with experience in materials handling.



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