



E45-70XN SERIES

COUNTERBALANCED ELECTRIC, CUSHION TIRE FORKLIFT

**STRONG PARTNERS.
TOUGH TRUCKS.™**

WWW.HYSTER.COM

➤ THERE'S NO "QUIT" IN A HYSTER® LIFT TRUCK.

For nearly 90 years, Hyster Company has engineered and manufactured some of the most reliable and productive lift trucks on the market. The Hyster® E45-70XN series continues that legacy with a lift truck that was designed and built to be the most dependable in the marketplace.

WORLD-CLASS DEPENDABILITY

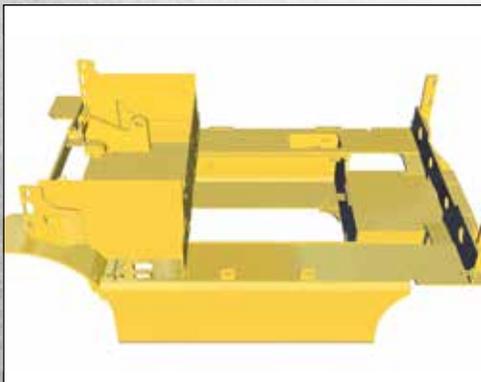
- Brakes are self-adjusting and self-energizing with heavy duty backing plates to provide optimal performance and lengthened service life.
- Auto deceleration system extends brake life by automatically slowing the truck through regenerative braking when the accelerator pedal is released.
- The power-assist braking feature improves brake life while reducing operator effort.
- Easy-to-use on-board diagnostics through the multifunction display provide fast and accurate troubleshooting for first-time fixes.
- Optional electronic monitoring package reports low fluid level and hydraulic oil filter restrictions.
- The durable cast ductile iron steer axle provides the smoothest ride for component and battery protection. Its transverse, double-acting hydraulic cylinder, tapered roller spindle-support bearings and non-adjustable tie rods provide maximum durability while providing superior steering control and load handling.
- Optional LED work lights, brake lights, and taillights resist vibration and rarely need replacement.
- Unitized frame construction provides excellent durability and stability, boosting driver confidence and enhancing productivity.

THERMAL MANAGEMENT SYSTEM

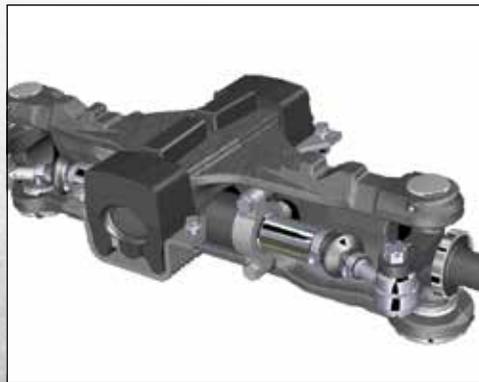
- Large air inlet ports in the rear of the truck are protected and strategically positioned to provide fresh air intake for controller cooling.
- A heat sink is used to draw heat away from the motor controllers, and cooling fans are positioned on top of the heat sink.
- The Hyster-designed thermal management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

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% of hydraulic system debris, significantly extending component life.
- Smart placement of the control valve and hydraulic lines away from heat sources reduces operating temperature, extending the life of seals and hoses for exceptional reliability.



Rugged unitized frame



Durable steer axle



Large air inlet ports

INDUSTRIAL STRENGTH ELECTRONICS

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



▶ SMALL INVESTMENT. BIG APPRECIATION.

The Hyster® E45-70XN series lowers your cost of operations by delivering enhanced productivity, lower energy consumption, advanced dependability and reduced maintenance costs. The standard AC traction and hydraulic motors set the standard in materials handling, significantly reducing maintenance requirements.

BRUSHLESS AC TECHNOLOGY

- Eliminates the motor brushes
- Eliminates scheduled downtime and the cost for parts and service
- Requires no periodic maintenance for brushless AC traction and hydraulic motor
- Eliminates the service requirements created by brush wear dust
- Does away with the commutator and its related parts and service costs

VEHICLE SYSTEM MANAGER

All vehicle systems are managed electronically to optimize performance, significantly increase overall reliability and enhance diagnostic capabilities for maximum uptime. The VSM enables customization of truck performance to suit application needs.

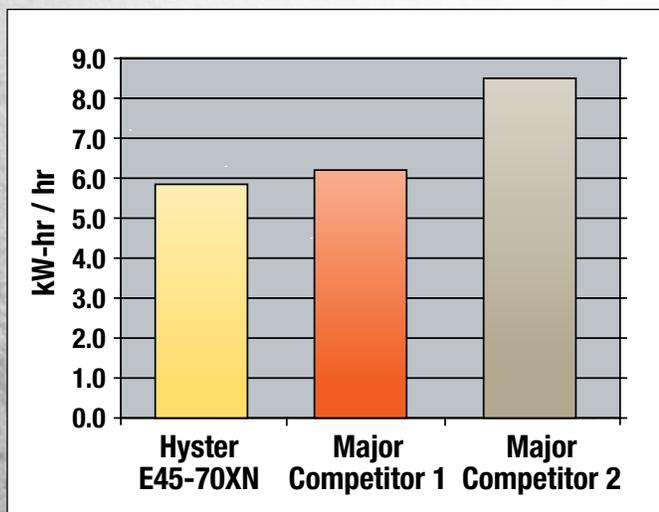
- Communicates with motor controllers and operator display via CANbus
- Monitors truck functions and stores data
- Provides advanced thermal management and truck diagnostics
- Interfaces service and diagnostic tools
- Interfaces all operator control devices
- Interfaces all on-board sensors

UNRESTRICTED SERVICE ACCESS

- Two-piece floor plate and side plates can be easily removed for access to:
 - brake fluid reservoir
 - hydraulic filter
 - hydraulic valve
 - VSM
 - tilt cylinders
- Lift-out floor plates require no tools for quick and easy daily operator checks.
- Removable side plates provide additional access to all major truck components.

SUPERIOR SERVICEABILITY

- The E45-70XN series utilizes CANbus communications to simplify wiring and improve serviceability.
- State-of-the-art on-board diagnostics reduce repair time and minimize expensive part-swapping.
- Direct access for service is a key element for easier daily maintenance or service. The result is reduced downtime for continued productivity.
- Easy battery access is provided via the gas spring-assisted hood and quick release handle.



According to the VDI Energy Cycle Standardized Test, the E45-70XN series uses less energy than our major competitors. Better energy utilization saves money and reduces impact on the environment.



Easy battery access



Unrestricted service access

➤ SUPERIOR COMFORT COMES STANDARD.

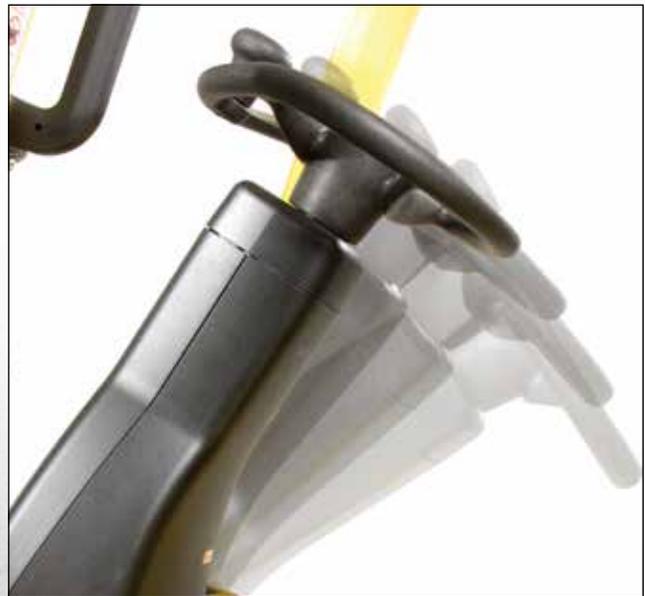
The superior ergonomic design of the E45-70XN means greater comfort for your operator. Enhanced ergonomics combined with customizable performance characteristics enhance overall productivity and uptime.

SUPERIOR OPERATOR COMPARTMENT

- Choice of two configurations that employ seatside mechanical levers or TouchPoint mini-levers to provide you unsurpassed, low effort, tactile control of all hydraulic functions.
- Uncluttered floor area promotes operator comfort.
- Optional DC converter provides an automotive style 12-volt outlet in the operator convenience station and an auxiliary power tap under the floor plate for customer mounted accessories.
- Easy-to-use 3-point entry design of operator compartment features a large molded hand grip, hip restraint and open non-slip step with a low step height to minimize muscle and joint strain during entry/exit.
- Forward placement and angle of pedals provide an optimal amount of operator foot room.
- Electronic floor-mounted accelerator pedal.
- Placement and size of brake pedal allows actuation with either foot.
- Thickest floor mat in the industry provides greater operator comfort.
- Seat is rotated 3° to the right for a more natural operating position, and offers easy fore/aft adjustment. An optional full-suspension seat offers adjustable weight control.



3-point entry design



Infinitely adjustable tilt steer column

HYDRAULIC CONTROLS

- Choose TouchPoint mini-lever electro-hydraulic controls with a built-in armrest, or alternative seat side mechanical levers.
- Optional 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 most comfortable and efficient position.
- The armrest is cushioned and contoured to provide full forearm support. The hydraulic functions, seat side directional control switch, horn and emergency disconnect button are all incorporated into the armrest and designed to maximize operator comfort and ease of use.

LOW-EFFORT OPERATION

- The optional automatic park brake automatically applies the park brake when the truck is stationary and releases the park brake when the accelerator pedal is depressed, increasing productivity and reducing operator effort.
- Brake pedal layout and the minimal braking requirements of the Auto Deceleration System significantly reduce operator fatigue.
- Rear drive handle (optional) provides an excellent hand hold for reverse driving while giving ready access to the auxiliary horn button for use when approaching cross-aisles and pedestrian traffic areas.
- An infinitely adjustable steer column and optional full-suspension seat assures the right fit for any operator.
- A choice of six different seats enables a more customizable level of operator comfort through the enhanced design and adjustable features.
- Overhead guard is designed for comfortable shoulder clearance.
- Open floor space gives operators ample foot room.
- The standard 12-inch steering wheel with integrated spinner knob reduces fatigue while providing more knee room and goes lock-to-lock in just 4 turns for superior efficiency, maneuverability and control.
- Optional key switch controlled lights turn work and taillights on and off with the key switch, and turn rear work lights on automatically when the truck travels in reverse, eliminating the need for the operator to control them manually.

12-volt automotive style outlet



Operator convenience station



Adjustable armrest



Ample floor space

INNOVATIVE TRUCKS ENGINEERED TO MEET THE MOST DEMANDING APPLICATIONS

For nearly 90 years, Hyster has conquered the world's most demanding applications. In the 1920s 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.



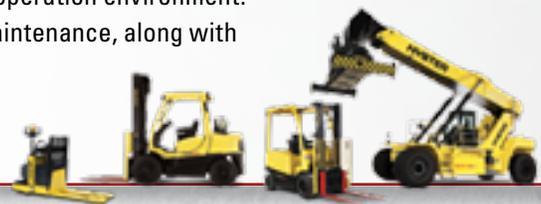
Special Products Engineering Department (SPED) — Different materials require different handling. That's why we can work with you to customize your lift trucks. From strobe lights to specially made forks, SPED has the tools to help you get the job done right.



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.



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10/2017 Litho in U.S.A.

Visit us online at www.hyster.com or call us at **1-800-HYSTER-1**.

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