

# E30-40HSD<sub>2</sub> SERIES

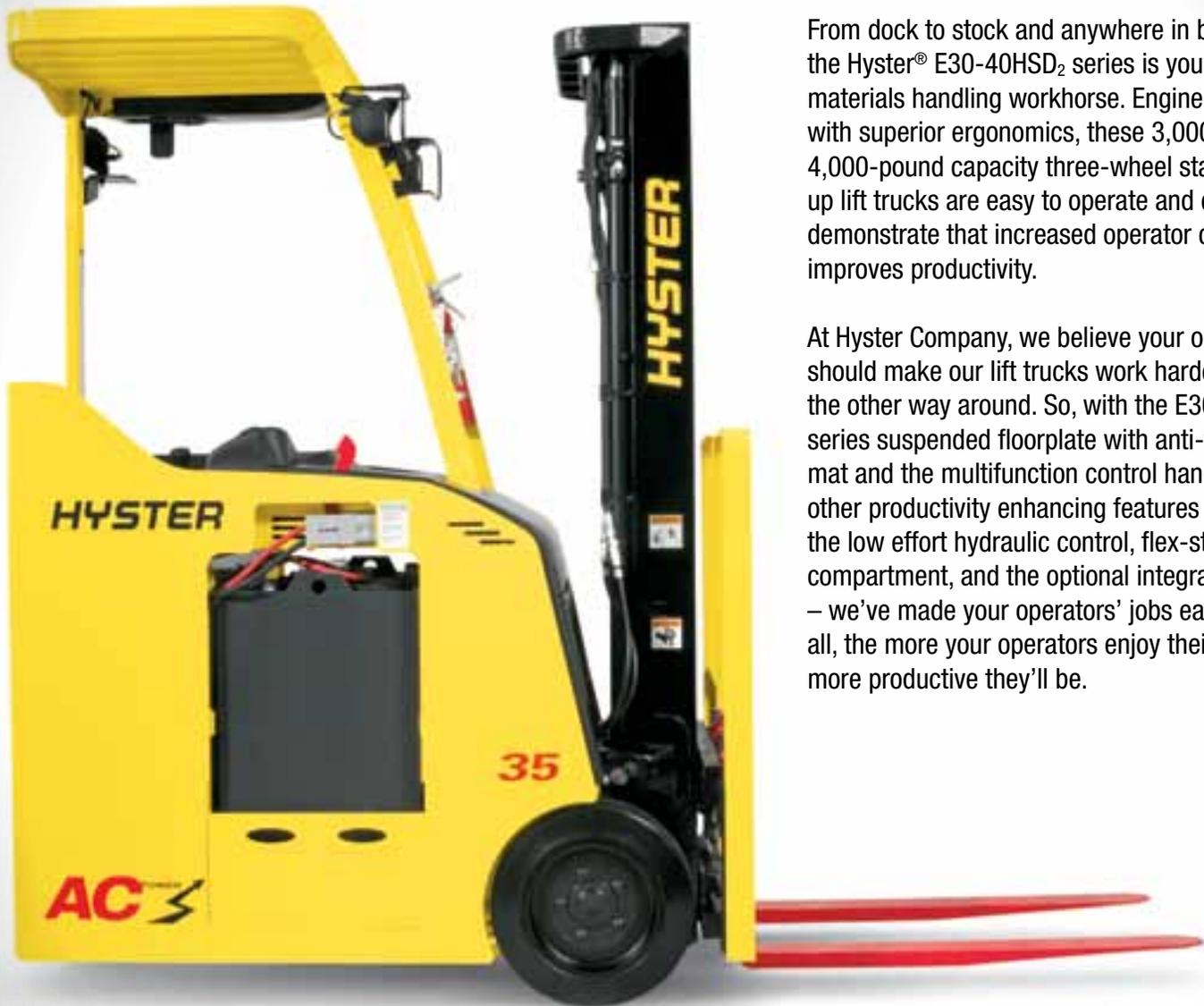


**STRONG PARTNERS.  
TOUGH TRUCKS.™**

**COUNTERBALANCED ELECTRIC, CUSHION TIRE**

# THE HYSTER ADVANTAGE

## E30-40HSD<sub>2</sub> SERIES



From dock to stock and anywhere in between, the Hyster® E30-40HSD<sub>2</sub> series is your versatile materials handling workhorse. Engineered with superior ergonomics, these 3,000 to 4,000-pound capacity three-wheel stand-up lift trucks are easy to operate and easily demonstrate that increased operator comfort improves productivity.

At Hyster Company, we believe your operators should make our lift trucks work harder – not the other way around. So, with the E30-40HSD<sub>2</sub> series suspended floorplate with anti-fatigue mat and the multifunction control handle and other productivity enhancing features such as the low effort hydraulic control, flex-stance compartment, and the optional integral sideshift – we've made your operators' jobs easier. After all, the more your operators enjoy their jobs, the more productive they'll be.



# RAISING THE STANDARD FOR LIFT TRUCKS

## **A** Overhead Guard (OHG)

The unique grid-style pattern provides excellent visibility while protecting operators. Two heights are available: low profile 83.0" and tall profile 88.0" (standard).

## **B** Operator Compartment

Operator controls are positioned to allow a side stance or 45-degree stance to maximize comfort, efficiency and visibility. The contoured wraparound padded backrest with integrated thigh and knee pads, anti-fatigue floor mat and suspended floor significantly reduces the transmission of vibrations for greater comfort.

## **C** Mast

Fast lift and lower speeds combined with superb visibility make the Hyster mast among the best the industry has to offer. The optional integral sideshift affords excellent visibility and greater capacities than carriage mounted sideshifts.

## **D** Hydraulic Controls

The Multifunction Control Handle affords simultaneous operation of lift/lower, horn, travel direction, speed, and one auxiliary function for enhanced productivity.

## **E** Console Covers

The top and front covers are made of a durable crack-resistant ABS polymer, and includes large storage areas for operator convenience.

## **F** 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.

## **G** Brake System

Fully adjustable Auto Deceleration System allows an operator to rely less on the brakes, enhancing overall productivity. Electric brake engages when the RPM of the AC traction motors reaches zero for at least one second. The automatic park brake is applied when the operator steps off the truck.

## **H** Floor Plate

Anti-fatigue floor mat covers a suspended floor that rests on polymer arches that absorb and reduce the transmission of vibration and shock to the operator by 25 percent.

## **I** Three-wheel Design

The on-demand rack-and-pinion hydrostatic steer system uses a brushless steer motor for reliable, maintenance-free operation. The E30-40HSD<sub>2</sub> series unique three-wheel configuration provides a tighter turning radius for unparalleled maneuverability that makes stacking in limited space and congested loading bays easier than ever. The dual steer wheels provide a smoother, more stable ride.



Trucks shown with optional equipment.

# E30-40HSD<sub>2</sub>

# LOW COST OF OWNERSHIP

Service on the E30-40HSD<sub>2</sub> series is made simple by easy access to maintenance items and an overall simplified design that reduces parts while increasing durability. The E30-40HSD<sub>2</sub> features an uncomplicated design to reduce downtime for servicing; increasing the total time spent moving product and enhancing your profit margin.

## Unrestricted Service Access

- Removable floor plate and side panel provide complete access to the power steering assembly. The hydraulic-actuated rack-and-pinion steer axle is completely enclosed, preventing moisture and outside contaminants from entering the steer unit.
- Easy lift-off panels provide quick access to lift pump, drive motors, electronics, power steering pump and motor for easy maintenance.
- The covers are made of high impact ABS plastic. Large storage compartments and a recess for a clipboard are molded into the top covers. Covers are easily removed with a minimum of tools.
- The optional Battery Gate Interlocks prevent the truck from traveling if a battery gate was not replaced after servicing. The three gate removal options are: Right Side Extraction Only, Left Side Extraction Only or Both Side Gates Extraction.
- The control system incorporates a CANbus network to link all vehicle systems. The network allows communication between the traction controllers, the multifunction control handle, the hoist controller, and the dash display. The ability to communicate between truck systems allows the control system to optimize vehicle operation for performance, safety, and diagnostics.

## Hyster i<sup>3</sup> Technology™

Hyster® i<sup>3</sup> Technology™ integrates commonality among Hyster warehouse products and simplifies the way in which operators and technicians alike handle and service the truck. The Integrated Intelligent Interface ties together functionality, software, diagnostic codes, similar interfaces, and is Hyster Tracker compatible. This technology allows operator input to optimize performance to suit operator skill level. It also provides setup and diagnostic menus for service technicians.

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**i<sup>3</sup> TECHNOLOGY™**



## World-class Dependability

- Auto Deceleration System slows the truck through regenerative braking to reduce brake wear extending service life.
- The AC traction and hoist motors offer a simpler motor design eliminating commutating brushes. The simple design of AC motors improves reliability and reduces maintenance requirements. The drive motor insulation is class H rated and the lift motor insulation is class F rated, providing the highest degree of protection.
- Sealed connectors, rated at IP65, are primarily used throughout the control wire harnesses. The connectors utilized also provide a positive mechanical lock reducing the possibility of connectors coming loose.
- The motors have a temperature sensor mounted internally to monitor and provide feedback to the CANbus network. The temperature sensor monitors the motor thermal state and can react to various situations to self protect the motor.
- The controllers constantly monitor internal heat sink and connected motor temperatures. If motors exceed a thermal threshold, performance to the motor is reduced and vehicle operation is limited.



# SUPERIOR ERGONOMICS

The E30-40HSD<sub>2</sub> is uniquely focused on assisting operators to work more productively with greater comfort in congested docks or aisles. Enhanced ergonomics combined with customizable performance characteristics enhance overall productivity and uptime.

## Low Effort Controls

- The Multifunction Control Handle has a built-in palm rest in conjunction with the padded armrest that provides ergonomic support of hand, arm and shoulder for increased operator comfort.
- The handle assembly offers a palm rest, large function buttons, and low actuation efforts. The handle allows simultaneous operation of traction, lift/lower, and one auxiliary function. The convenient large quad button allows ease of operation of the functions on the truck even in freezer applications.
- The tiller assembly, made of durable cast metal, lends itself to the ergonomics and ease of use of the truck.
- An automatic park brake ensures that the brake is applied when the operator steps off of the truck.



## Superior Operator Compartment

- The Hyster® E30-40HSD<sub>2</sub> series operator environment is intuitive by design. Its suspended floor helps operators work more comfortably and productively in or around congested docks and aisles.
- Operator controls are positioned to allow a side stance or 45-degree stance to maximize comfort, efficiency and visibility.
- Contoured wraparound padded backrest with integrated thigh and knee pads, padded armrest, anti-fatigue floor mat and suspended floor significantly reduces the transmission of vibrations for greater comfort. The covers include a cup holder, clipboard, and large storage areas.
- A low 7-inch rear step height provides easy entry and exit, while a half-inch lip around the floor helps keep operators' feet inside the compartment.
- The Trucker's Style Mast Option provides clear-line-of-sight to the load and work area where forward visibility is significantly improved.
- The brake pedal mounting location is optimized for comfort through the entire operating range and operator positions.





# ENHANCED PRODUCTIVITY

With the Hyster-engineered productivity of the E30-40HSD<sub>2</sub> series you'll move more product from dock to stock with greater efficiency, improving the bottom line. It's the three-wheel, stand-up lift truck that delivers on performance and versatility.

## Superior Operator Control

- The multifunction control handle affords simultaneous operation of lift/lower, horn, travel direction, speed, and one auxiliary function for enhanced productivity.
- The optional Gated Multifunction Control Handle provides the productivity benefits of a multifunction handle and the feel of a single axis handle, allowing simultaneous lift and travel functions below 2 mph, while restricting lift above 2mph.
- A non-contact Hall Effect accelerator input uses magnet and sensor to eliminate wear, increase durability and provide enhanced speed control and acceleration.
- The rack-and-pinion hydrostatic power steer system affords precise control with minimal steering effort, while the dual steer wheel assemblies provide 180 degrees of total steer angle for superb maneuverability. The hydraulic steer system offers on-demand performance, efficiency, and reduced noise.
- The fully adjustable Auto Deceleration System automatically slows the truck allowing the operator to rely less on the brakes, enhancing duty cycle times.
- Three-wheel configuration provides a tighter turning radius for superb maneuverability that makes stacking in limited space and congested loading bays easier than ever.
- Continuous differential drive enables both drive wheels to operate separately for extra traction and power, with positive traction for quicker starts and stops aided by load and truck weight distribution over the drive wheels.
- Widely spaced, flush-faced mast channels allow the handling of greater capacities, providing outstanding stability throughout the lifting range with excellent visibility.
- Optional Hyster integral sideshift provides excellent visibility and affords greater capacities than carriage mounted sideshifts.



## AC Technology

- The use of AC motors provides improved acceleration and performance on grades, while the precision load positioning on incline capability allows operators precise control of truck hydraulic functions while on an incline, reducing the likelihood of unintended product damage.
- AC transistor traction control system and AC motor provides seamless acceleration and faster travel speeds through full-time electronic field control, increasing productivity.
- Controllability has been improved with the AC controls which allow the operator to make smooth, controlled movements and accelerations.
- Regenerative braking puts energy back into the electrical system and is stored in the battery, improving efficiency, and reducing wear on brake components.

## Multifunction Display

- The standard premium dash display includes the programmability of four operator-selectable performance modes and can store 30 operator specific passwords.
- The 1" tall by 2" wide LCD displays vehicle status, warning, and fault messages. The primary screen presents battery level, throttle command, vehicle speed, vehicle direction, steer angle, performance mode, and hours.
- A heated version of the display is available for freezer applications. Both the standard and heated displays are rated to IP-65, for greater durability.



# ■ When you buy a Hyster® truck, you get more than a truck.

Hyster® lift trucks are designed to lower your cost of operations. In fact, in an independent survey, current customers rated Hyster Company #1 in Total Cost of Ownership. Our lift trucks are also backed by an unmatched network of specialists. Through our Dealer Network, we can offer the expertise of fleet managers, parts suppliers, capital procurement specialists and trainers.



**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 2 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 application, make, model and operation environment. Hyster service programs offer scheduled inspections and maintenance, and when you need immediate service on a fleet or single truck, your local dealer offers quick, responsive service dispatched to your location.





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