

Electric

3-Wheel

Stand-Up



ESC030-040AD

3,000-4,000 lbs.



ESCO30-040AD 3-WHEEL STAND-UP

Ergonomics

Yale® Smart Ride floor system Clear View™ mast Multifunction control handle Storage areas on top console

Productivity

Yale® iSi Technology™
On-demand hydrostatic steering
AC transistor controlled lift pump
Proportional functionality

Low cost of operation

Thermal Management System
AC Technology
Serviceable control handle
Regenerative braking

Dependability

Unitized frame

Maintenance free Smart Ride floor system

Hall effect sensors

O-ring face seals

Serviceability

Easy lift-off high impact plastic panels Clean electrical compartment layout Simple battery access Easy access PCST port

Built to be operator friendly

Designed for side-stance operation, the ESC-AD provides operators the flexibility of an angled stance with expanded hip room. The multifunction control handle with integral thumb rest is comfortably operated with a gloved or bare hand. The Yale® mast and overhead guard provide enhanced visibility. Large 18" drive tires, along with the Yale® Smart Ride floor system, help smooth out the ride over expansion joints and dock boards. The Yale® ESC-AD aids in getting the job done by helping to reduce operator fatigue, thereby improving productivity.

Multifunction control handle

The redesigned multifunction control handle is configured with the operator in mind, offering simultaneous control of travel and hydraulic functions. Full proportional control for all functions is possible, as well as precise load handling capability. Controls are conveniently located for forward/reverse, lift/lower, horn, tilt, optional sideshift and an optional 4th function. The handle assembly is ergonomically designed with an integral thumb rest, plus an operator grip pad for added comfort.

☐ Yale[®] Smart Ride Floor System

The suspended Yale® Smart Ride Floor System greatly reduces up to 65% of shocks and vibrations transmitted to the operator's feet, back and legs from dock plates, expansion joints, and other irregular floor surfaces. The innovative design allows for quick dampening to reduce any type of "POGO" effect. Able to operate between -40°F and 120°F, the maintenance-free design requires no weight adjustment from the operator.

Operator conveniences

The dash covers include a cup holder, clip holder and two storage areas. These ergonomic features, together with fully padded armrests and backrest, combine to make the ESC-AD operator compartment a productive work environment. A standard premium dash display provides bar graphics for discharge indication; steer angle graphics; travel direction; traction throttle; and truck speed.

Operator visibility

The standard heavy duty mast provides good visibility. The optional Clear View[™] mast offers up to 40% greater visibility than leading competitors. Key factors in achieving a higher level of visibility include tighter nesting of mast channels and routing of hoses and chains behind the channels. The Clear View[™] mast, available on 3,000 lb trucks (13.8", 16.0", and 18.3" battery compartment sizes).

The unique flat plate overhead guard configuration provides good visibility while protecting operators. Two heights are available: 83.0" (low profile) and 88.0" (standard profile.)



Ultimate productivity

Performance and productivity are built right into every Yale® truck. The ESC-AD is no exception. From its standard AC motors and controllers, multifunction control handle, on-demand power steering and transistor hydraulic control system, this truck delivers state-of-the-art technology that adds up to reliable performance. The multifunction display incorporates Yale® iSi Technology™ bringing a commonality between Yale warehouse products and how operators and technicians alike handle and service the truck. It ties together functionality, software, diagnostic codes, similar interfaces and is Yale Vision compatible.

Three-wheel design

The on-demand rack-and-pinion hydrostatic steer system uses a brushless steer motor for reliable, maintenance-free operation. The 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. Exclusive precision load positioning on incline capability minimizes the likelihood of product damage from unintended load contact. Dual steer tires, with hydraulic actuated rack and pinion steer axle, provide precise, reliable control designed for maximum performance.

Durable mast

Fast lift and lower speeds combined with great visibility make the Yale® mast a productive feature. High-strength, steel mast channels and compact cast steel cross members provide visibility and rigidity. The optional integral sideshift affords greater capacities than carriage mounted sideshifts.



Superior operator control

The fully-padded, contoured operator's compartment provides comfort and operating ease. Ergonomic extras such as a cup holder, clip holder, and storage areas add to the productive work environment.

The suspended Yale® Smart Ride Floor System reduces up to 65% shock and vibration throughout the shift. Intuitive controls and dash display make operation easier. Fully adjustable Auto Deceleration System allows an operator to rely less on the brakes, enhancing overall productivity.

AC technology

A standard AC Transistor traction controller and master controller utilizing CANbus Communication provide excellent travel speed control through the entire speed range. The AC Transistor lift pump control matches pump speed with hydraulic flow requirements for increased efficiency, quieter operation and reduced maintenance.

Standard, dual independent AC drive motors with separate drive controllers provide optimum maneuverability while turning. As the truck begins to turn, the inside motor initially slows, then stops and finally reverses to minimize turn radius.

Yale[®] iSi Technology™

Incorporates a common control system with consistent functionality across the warehouse product line. The Integrated Smart Interface utilizes the same software, diagnostic codes and functionality for the main warehouse trucks creating commonality for users, supervisors and service personnel. The system offers full customization to allow a user to properly match the trucks' performance with the skill of the operator.



040AD 3-WHEEL STAND-UP



Low cost of operation

The purchase price of a truck is only a small part of its overall cost. A lift truck's cost of ownership is the largest portion of dollars spent and includes such elements as periodic maintenance, unscheduled repairs and tires. The Yale engineers focused on cost of ownership savings, world-class serviceability and dependability. The ESC-AD truck offers substantial operating cost savings over the competition.

Auto Deceleration System

Brake life is significantly improved with the Auto Deceleration System. The electric park brake engages when the RPM of the AC traction motor reaches zero for at least one second, minimizing brake usage requirements, and reducing associated brake wear costs. The automatic park brake is applied when the operator steps off the truck.

Simplified serviceability

Simplified daily checks and reduced service requirements reduce the labor cost involved with periodic maintenance and unscheduled repairs. To further aid serviceability, the compartment covers require no tools to remove and offer complete access to the powertrain.

The multifunction control handle is fully serviceable down to the individual switches, reducing replacement costs by up to 59%.



Dependability

When it comes to three wheel stand-up riders, you'll find the Yale® AC Powered ESC-AD is versatile in performance and offers superb operator comfort. In fact, with top-of-the-line components, superior ergonomics and easy maneuverability, it is highly productive in dock and drive-in/drive-through rack applications. The ESC-AD excels in applications within retail distribution, food production and processing, general warehousing, manufacturing and freight transportation.

Thermal management system

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.

Durable components

The frame uses a small welded-in counterweight around the steer tires, with a larger cast counterweight above it which is bolted to the frame via 4 bolts.

Hi-VisTM and optional Clear ViewTM masts are designed to be rugged in medium and heavy duty applications

The floor plate system uses straight roller bearings with wear plugs and coil over dampener, and is operational in environmental conditions from -40° F to 120° F.

Service made simple

Not only is the ESC-AD designed to require less maintenance, it's also designed to be extremely easy to service. From quick and easy component access to a dash display for diagnostic trouble shooting, this truck was designed with the smallest service details in mind. But there's nothing small about the service access this truck provides. In fact, its maximum access makes servicing fast, easy and convenient.

CANbus system

The electrical system features CANbus communications to form one integrated system. This substantially reduces connections and wiring complexity resulting in reduced maintenance and increased reliability.

Easy diagnostics

The service technician can use the dash display to perform diagnostics and set-up of the truck's acceleration rate, top travel speed, hydraulic function speeds, and regen (plugging rate). The external CAN diagnostic/programming port facilitates faster field service accessibility and improves troubleshooting, programming and information gathering.



Dual battery gates

Battery gates are provided on both sides of the truck so that the battery can be removed or maintained from either side. The lift out roller design allows for easy removal and replacement of battery rollers. The optional battery gate interlock sensor signals a warning to 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.



Supporting customers

With world-class parts and service

Our Guaranteed Availability Program (G.A.P.) ensures that parts that are normally required in the first 2 years of operation will be available from your Yale® parts dealer within 24 hours or they are free. With four Parts Distribution Centers strategically located around the world, we provide a full range of original equipment and aftermarket parts that maintain our customers' uptime.*

We also take that commitment into the field with Yale's ProTech® Certification training program, available to our dealers' technicians. The ProTech® technical training program provides both systems level as well as product specific education to ensure lift trucks are repaired right the first time.





Application-matched performance

The ESC-AD series takes on a variety of applications—with exceptional performance, durability and reliability. Yale has options that will help to boost productivity, lower your cost of operation, and increase operator comfort.

Integral side shifting fork positioner

The optional Integral Side Shifting Fork Positioner (ISSFP) is useful within industries that handle a variety of load sizes and require frequent stops to reposition fork width. With this feature, the operator can quickly and accurately sideshift the forks, as well as move the forks inward or outward to handle a variety of pallet configurations. The Yale® ISSFP is integral to the carriage, no additional carriages or aprons are required. Eliminating the need to exit the truck and move the forks by hand, the ISSFP saves time and decreases manual effort, thereby increasing operator productivity. Product and pallet damage is reduced, helping to decrease your cost of operation.







The Yale experience

With Yale, you know you're getting more than just a truck. You're getting the complete Yale experience. It's the promise we make that goes beyond our products, and our commitment to support you with the best service in the industry.



Dealer Network - Yale customers have direct access to the best forklift products and services through our extensive, independent dealer network, featuring 340 worldwide dealer locations (225 in the Americas) with an average of more than 25 years of experience in materials handling.



Financial Services - Yale Financial Services specializes in financing your lift truck needs. Our programs make it easy to acquire the use of a lift truck or an entire fleet.



Fleet Management - 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.



Innovations - One size doesn't always fit all. Yale has engineered a variety of truck modifications to meet the ever-changing needs of its customers and their changing applications. In addition to standard and optional truck features, Yale offers an impressive list of special truck enhancements designed to increase your productivity.



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



Replacement Parts - Your authorized Yale® Lift Truck dealer offers genuine Yale® parts and quality parts for other makes (PREMIER™ Parts) as well as service programs - all designed to keep your trucks running efficiently and cost-effectively.



Rental - Long-term rental can provide flexibility for equipment and term tailored to your operation, fixed cost, maintenance and maximum uptime without major capital investment. Coupled with Yale® dealers' extensive short term rental fleets, businesses can meet peak production or seasonal requirements while keeping their fleets sized for their everyday needs.



Delivering total customer satisfaction

Yale's unique relationship with our customers is a product of our total customer satisfaction commitment combined with world-class manufacturing. Yale's goal is to anticipate the needs of every customer and address them with lift trucks that deliver the performance, value and dependability our customers demand.



For more information, or to find your nearest Yale® dealer, go to Yale.com.



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Manufactured in our own ISO 9001 and 14001 Registered Facilities