

Yale[®]
People. Products. Productivity.™

4-Wheel, Sit-down
Electric Counterbalanced
Cushion Tires



ERC-VG
4,500 - 7,000 lbs.

High performance and energy efficient electric trucks

The ERC045-070VG four wheel electric forklift truck is one of the most operator-friendly lift trucks in the industry. The ERC045-070VG series trucks are designed with a focus on “human engineering” to minimize operator strain and fatigue and to maximize productivity.

Designed for indoor use, this versatile lift truck comes with lower maintenance costs and is easy to service due to the highly efficient AC traction and hydraulic motors. Between the lower operating expenses, reduced maintenance costs, extended maintenance intervals and increased throughput, the ERC045-070VG provides outstanding productivity and cost savings.



THE **ERC-VG**

4-wheel
electric

Highlights



0 **Ergonomics**

- Tilt steering column
- Open floor plate design
- Optional rear drive handle
- Optional Accutouch mini-levers

0 **Productivity**

- AC technology
- Advanced thermal management system
- Optional automatic park brake
- Operator selectable performance modes

0 **Cost of operation**

- AC traction and hydraulic motors
- Brushless AC technology
- Auto Deceleration System
- Power-assist braking

0 **Dependability**

- High strength gears and shafts
- Cast ductile iron axles
- Unitized frame design
- CANbus technology

0 **Serviceability**

- Optional battery side extraction
- Two-piece floor plate
- Rear-hinged hood
- Intellix Vehicle Systems Manager

Designed for comfort

Operator comfort enhances productivity and reduces fatigue. With maximized visibility, smooth, precise mast positioning, low-effort steering, and “human-engineered” operating controls, everything about these trucks makes them easy to operate.

□ Built to be operator friendly

The “operator’s truck” – The Yale® ERC-VG truck features large, textured grab handles, deep, anti-skid steps for easy entry and exit, thumb-actuated directional controls, seat-side power disconnect, spacious, easy-to-reach storage areas on the cowl, and a tilt steering column for reduced operator fatigue. The operator convenience station provides an industry-leading dash storage area for almost anything an operator needs. 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.

Open floor plate design – The ERC-VG series’ open floor plate design maximizes the available space for the driver’s feet, providing up to 20% greater floor space. Power-assist braking reduces brake pedal effort. Placement and angles of accelerator and brake pedal provide maximum operator comfort. The extra-thick floor mat absorbs shock and reduces operator fatigue.

Customizable operator compartment – The operator’s seat is precisely positioned to provide a more comfortable, efficient operator position, enhancing visibility through the mast, resulting in less operator fatigue. The standard steering column is infinitely adjustable. The optional telescoping steer column with tilt memory provides superior adjustability to accommodate a wide range of operator sizes.

Rear driving comfort has been enhanced with a convenient optional rear drive handle with horn button. The rear drive handle, in conjunction with the optional swivel seat, creates a comfortable, secure reverse driving position. Non-cinch seat belts provide superior operator comfort.

An optional auxiliary DC converter provides an automotive style 12-volt outlet in the operator convenience station and an auxiliary power tap under the floorplate for customer installed accessories.

Hydraulic controls – Choose from two configurations that employ seatside mechanical levers or optional Accutouch mini-levers to provide unsurpassed, low effort, tactile control of all hydraulic functions. Choose from the ergonomically placed thumb actuated seatside directional control or the Yale® exclusive Foot Directional Control (at no extra charge) for quicker, smoother control of travel speed and direction, improving operator efficiency and bolstering productivity.





Tilt steering column



Rear driving comfort



Standard hydraulic controls



Optional Accutouch mini-lever electro-hydraulic controls

Ultimate productivity

Performance and productivity are standard equipment on every Yale® truck. With the ERC-VG series, increased productivity and cost savings are achieved through lower truck operating expenses, reduced maintenance costs, extended maintenance intervals, and increased throughput.

Available in 36, 48 and 80 volts, ERC-VG trucks are designed to meet and exceed your application requirements. All models come standard with cool running, low maintenance AC traction and hydraulic motors.

☐ Comfort aids productivity

Operator comfort is enhanced on the ERC-VG truck with increased floor space, improved operator seat position, and non-cinching seat belt. Reverse driving is made easier with the rear drive handle. 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.

☐ Continuous Stability System (CSS™)

The CSS enhances truck stability in a simple, maintenance-free design, without compromising travel across uneven surfaces.



□ Performance modes

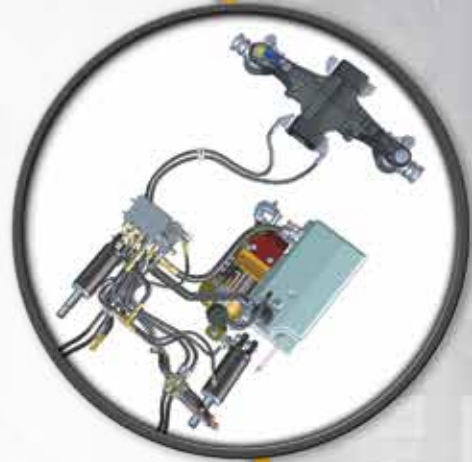
Four operator selectable performance modes and the innovative Extended Shift feature allow the truck's performance to be tailored to the customer's application as well as the operator's skill level, increasing efficiency.

□ AC technology

The ERC-VG series utilizes proven AC technology coupled with the Intellix VSM, providing enhanced performance throughout the usable battery discharge cycle. This highly efficient system also provides longer battery run time for increased throughput.

AC motors provide powerful acceleration, fast travel speeds (both with and without a load), and fast lift/lower speeds. The innovative thermal management system keeps productivity high while protecting key truck components.

The optional Premium Performance Package (48v / 80v) provides up to a 12% improvement in traction performance and 10% increase in hydraulic performance over the standard configuration. This package provides an excellent alternative to replace ICE units in certain applications, providing ICE performance without the emissions.



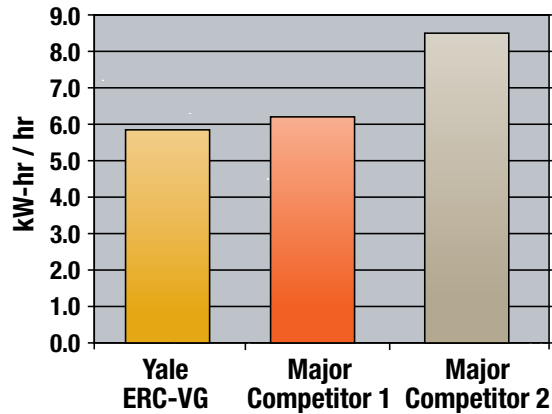
AC transistor hydraulic control enables precise load handling with greater efficiency and less noise.



Longer battery run time

ERC-VG 4-WHEEL
ELECTRIC
SIT-DOWN
PNEUMATIC

Lowest Energy Consumption



According to the VDI Energy Cycle Standardized Test, the E45-70XN series provides the lowest energy consumption; it's also 10% more energy efficient than our previous model. Better energy utilization saves money and reduces impact on the environment.

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, brakes and power costs. Yale® engineers focused on operating cost savings with reduced maintenance requirements, superior serviceability, enhanced durability, and extended service intervals.

○ Hydraulics

ERC-VG trucks provide tremendous flexibility to customize the truck's hydraulic and traction performance to the application. Whether you require extended battery shift life, aggressive hydraulic performance or fast travel speeds for long hauls across a factory floor, your trained Yale® technician can maximize your truck's performance.

AC traction and hydraulic motors completely eliminate brushes and associated rigging, reducing maintenance costs. The system is further simplified by combining the hydraulic and steering functions into one pump and motor assembly.

○ Auto Deceleration System

The Auto Deceleration System automatically slows the truck when the operator's foot is removed from the accelerator, reducing brake usage and associated brake maintenance requirements.

Power-assist braking further increases brake and drive train life by automatically utilizing traction motor braking in proportion to operator brake pedal pressure, reducing the demand on the service brakes. The rugged drum-type brakes feature strengthened "backing plates" for excellent durability.



Canted load rollers absorb front to back and side to side forces for better durability and reduced adjustments. Full face contact of rollers prevents excessive wear of the channel, prolonging roller life.

Dependability

Tough, industrial applications require industrial grade electric rider forklift trucks that add productive value, operate at maximum uptime, perform at demanding performance levels, and require minimal cost to operate. Yale ERC-VG lift trucks are designed and built with industrial grade critical components, providing outstanding productive value and economic life. It's a difference you can count on!

○ Drive & Steer Axles

High strength gears and shafts on the drive axle resist stress from quick directional changes. The tough cast housing absorbs shock and vibration. Power-assist brakes reduce brake wear and strain on drive unit components.

Steer axles support the significant weight of the counterweight, while being subjected to road shocks and vibration. Tough cast ductile iron axles provide one piece integrity for outstanding durability. Tapered roller bearings absorb multiple loading forces, improving reliability.

○ Frame

The unitized design and the welded steel construction of the Yale® ERC-VG 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.

○ Motor

Electric motors ensure the lift truck travels and lifts at speeds required for maximum productivity. AC motors eliminate brushes, reducing maintenance costs. Steering motor functionality is integrated into the lift pump and motor assembly, simplifying the system and increasing reliability. All motors are insulated with Class H insulation for superior heat resistance.

○ Electrical System

CANbus technology reduces wiring and connections, improving system reliability. Sealed electrical connections resist moisture and dirt, increasing uptime. The innovative thermal management system protects key components, while ensuring maximum productivity.

Service made simple

Not only is the ERC-VG series designed to require less maintenance; it's also designed to be extremely easy to service. The rear-opening, one-piece steel hood and the on-board diagnostics are designed with service details in mind. The outstanding component access makes servicing fast, easy and convenient.

○ Reduced regular service requirements

Standard AC traction and hydraulic motors eliminate brushes and associated rigging, reducing maintenance. The efficient AC electrical system only requires one contactor, eliminating directional contactors. The motor controllers have integral finned aluminum heat sinks to improve heat transfer. Thermostatically controlled industrial fans are mounted to the top of each heat sink to force cooling air down through the fins and pull heat away from the controllers.

○ Power-assist braking

Power-assist braking helps to reduce stress on key drive unit and braking components, increasing component life. Auto deceleration system reduces the demand on the brakes, further improving brake life.

○ Easy maintenance

Optional battery side extraction with rollers and a new low-profile side gate with quick release mechanism and traction cutout provide quick, safe and efficient battery access and changing.

Lift-out floor plates require no tools for quick and easy daily operator checks. Removable floor plate side panels provide additional entry to key components.

The ERC-VG series is also equipped with these features that make it easy to service and maintain:

- Rear-hinged hood that opens to nearly 80 degrees
- Common sense wire and hose routing
- Clearly numbered wires with sealed connectors
- CANbus technology
- Brushless AC motors
- O-ring face seal hydraulic fittings

Easy service access



□ On-board diagnostics

The Intellix Vehicle Systems Manager (VSM) continuously monitors and controls all major truck functions for efficiency and proper operation. The innovative ERC-VG display alerts the operator of any system concerns.

Hour meters for traction and hydraulic systems are accessible through the display. Extensive on-board diagnostics are also incorporated into the display to communicate service requirements to the trained technician, enabling quick and accurate repairs.

The Multifunction Display, located in the upper right corner of the operator's compartment, offers greater visibility for the operator with a large, LCD backlit screen for easy viewing and indicator icons for at-a-glance system status updates.



Multifunction Display provides status updates

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 helps 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 help ensure lift trucks are repaired right the first time.

**Consult your local dealer for G.A.P. program rules.*





Application-matched performance

From tough, short shuttle applications or long runs, to ramp usage, the ERC-VG is built for varied applications. Adjustable performance parameters allow for customization to the specific needs of the application or the operator. The Extended Shift functionality provides an excellent balance between battery run time and truck productivity. Higher levels of productivity can be obtained with the optional Premium Performance package.

□ Custom performance

- Return to set tilt option brings the forks to a preset position when tilting for easy operation.
- Operator selectable performance modes allow varying levels of truck performance.
- Premium performance package option provides up to 10-12% increase in travel speed and lift speed.
- Rapid charge option further improves productivity by eliminating battery changes.
- 36, 48, or 80-volt systems provide excellent performance.
- 80-volt electrical system option for maximum performance in long-haul applications.
- Extended Shift can be disabled for increased productivity levels.
- Optional wide tread, non-marking, and lug tread tires are available to suit a wide variety of applications.
- Optional hydraulic accumulator affords shock and vibration dampening to the load, truck and operator.
- Various environmental packages are available, including UL EE and cooler/freezer options, ensuring the right truck for the application.

Zero emissions. Zero compromises.

Yale has been a leading producer of zero emission trucks for years, so it's no surprise that the ERC-VG delivers high performance and battery extending technologies.



Better technology

In the ERC-VG, energy is recaptured during braking and then reused to reduce overall consumption. Non-productive energy is reduced through weight reduction, drive-train efficiency and hydraulic system efficiency. The standard "Extended Shift" setting provides the optimum balance between performance needs and battery life.

Better research

Yale was among the first to utilize working fuel cells in actual applications. And, in the coming years, Yale will continue to research alternative solutions in energy technology to enable a broader range of customers to make the switch to electric.

Better tomorrow

Yale is constantly testing, collaborating and researching in order to stay ahead of the curve. That means reducing your impact on the environment without reducing your throughput. In other words, switching from internal combustion to electric has never been easier for you—or better for the environment.

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.



YALE MATERIALS HANDLING CORPORATION

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Manufactured in our own ISO 9001 and 14001 Registered Facilities

2381A 11/2014 All trucks shown with optional equipment.