

# ERC080-120VH

**ELECTRIC RIDER TRUCKS**

**8,000-12,000 lbs.**



# WHEN IT COMES TO PRODUCTIVITY, THESE TRUCKS MAKE THE GRADE.

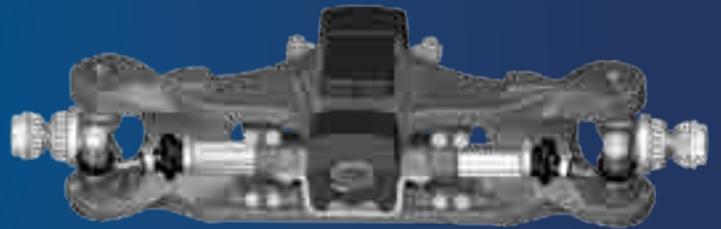
Just because our ERC080-120VH electric trucks are at the head of the class doesn't mean there's no room for smart enhancements. Yale believes that constantly improving is the best way to stay on top. That's why our designers and engineers put their heads together with customers and operators in warehouse, retail

and industrial environments to make our trucks more comfortable, more productive and more efficient than ever. Yale® ERC080-120VH trucks have the capacity to do the heavy lifting—up to 12,000 pounds—and the brains to help you maximize your productivity and your profits.



# THE POWER OF ICE. THE SAVINGS OF ELECTRIC.

Yale® electric lift trucks must pass the same demanding 15-day environment test as our ICE trucks. Freezing temperatures. Blistering heat. 30% grades. And many other grueling indoor and outdoor conditions they will never encounter again. This ensures they deliver the strength and performance of our ICE trucks, with the lower cost of ownership and environmental benefits of an electric truck.



## BUILT WITH BRAINS AND BRAWN

You expect that our electric trucks deliver smart, green technology. You may not expect that we optimize each one for strength and performance.

### POWERTRAIN

The reliable, rugged Yale powertrain delivers exceptional durability. The ICE-like drive axle assembly is designed with a cast ductile iron housing and a full floating axle to withstand heavy loads, absorb shock loads and provide long service life. Its steer axle has tough cast ductile iron that places the right amount of material in the right places to distribute stresses for maximum productivity.

### MAST

The industry-proven Yale mast continues to impress. We have reinforced our mast with ductile iron casted cross members that resist mast racking and lateral movement. Canted load rollers prevent mast channel flaring and robust flush-faced mast channels reduce mast deflection and improve capacity-to-height ratings.

### HYDRAULICS

To maximize uptime, Yale® electric trucks feature industrial-grade hydraulic components, including leak-resistant O-ring face seal fittings, heavy-duty hydraulic valves, fine micron filters and long-lasting hoist and tilt cylinders.

### CANBUS ELECTRICAL SYSTEM

Reliable electronics are a hallmark of all Yale trucks. The Yale CANbus electrical system reduces wiring and electrical connections, resulting in improved reliability and excellent serviceability.

# INTELLIGENT ERGONOMICS

Operators prefer Yale® trucks. 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.



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The Yale® ERC080-120VH is an “operator’s truck” with 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 with optional tilt-memory and telescoping for reduced operator fatigue.

The ERC080-120VH lift truck’s open floor plate design maximizes the available space for the driver’s feet, providing up to 11 percent greater floor space. Power-assisted 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 helps reduce operator fatigue.

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## COMFORT-OPTIMIZED SEATS

Operator comfort is essential for high productivity, which is why the Yale seats are optimized to reduce operator fatigue. They offer no-cinch ELR seat belts and 6 inches of fore/aft adjustment with 13 latching positions. The optional full suspension seat features an adjustable seat back and weight adjustment control. The optional swivel seat provides 6 degrees left swivel and 12 degrees right swivel.



The standard steering column is infinitely adjustable through a 26 degree range. 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-cinching seat belts provide superior operator comfort.



The optional Yale Accutouch minilever electro-hydraulic controls with thumb-activated directional control offer an excellent ergonomic design with shorter reach and throw and considerably less effort required to operate versus mechanical hydraulic levers. The fully-adjustable armrest with palm rest is contoured for maximum comfort.

# ULTIMATE PRODUCTIVITY

Performance and productivity are standard equipment on every Yale® truck. With the ERC-VH series, productivity 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, ERC080-120VH trucks are designed to meet and exceed your application requirements. All models come standard with cool running, low maintenance AC traction and hydraulic motors.



## PROVEN AC TECHNOLOGY

The ERC-VH series utilizes proven AC technology coupled with the “Intellix” VSM (Vehicle Systems Manager), providing enhanced performance throughout the usable battery discharge cycle. This highly efficient system also provides longer battery run time for increased throughput.

## MORE COMFORTABLE, BETTER PRODUCTIVITY

Operator comfort is enhanced on the ERC080-120VH with increased floor space, improved operator seat position and non-cinching seat belt. Reverse driving is made easier with the rear drive handle and swivel seat options. The Automatic Park Brake automatically sets when the truck stops, eliminating the park brake pedal and release handle, simplifying motions for the operator.



The location of the multifunction display provides maximum forward visibility and ease of operation. The multifunction display is located within easy reach of the operator or service technician for quick access to truck functions, diagnostics and troubleshooting without obstructing the forward view of the operator.

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

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.



## **TOUGH LOADS MADE EASY**

Irregularly shaped or unwieldy loads are no problem for the ERC080-120VH series. They’re built for superior stability—even while lifting materials with long load centers—thanks to the Yale Continuous Stability System (CSS™). The CSS reduces truck leans in turns, improving lateral stability, and the innovative steer axle mounting design allows for superior travel over uneven surfaces. It’s a low-maintenance, reliable system that lets operators feel confident when moving loads of all shapes and sizes.

- Yale Continuous Stability System (CSS) is 100% maintenance free, with no controllers, no sensors and no extra wiring
- Trunnion-mounted masts reduce load distance increasing long load center handling
- Mast channels are built with one-piece, high-strength rolled steel
- Load rollers are canted at 3 degrees to resist forward/backward movement



# LOW COST OF OWNERSHIP

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 are focused on operating cost savings with reduced maintenance requirements, superior serviceability, enhanced durability and extended service intervals.



The Advanced Thermal Management System protects vital components and maximizes lift truck performance by intelligently monitoring and cooling controller and motor temperatures through strategically placed, large air inlet ports, heat sinks and cooling fans.

## CUSTOMIZED FOR MAXIMUM PERFORMANCE

ERC-VH series 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 VH'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 motor.

Wet Disc Brakes provide excellent stopping power with low brake pedal effort. They are designed to lower your cost of operations by requiring no adjustments or servicing other than a periodic lubrication change at 4000-hour intervals.

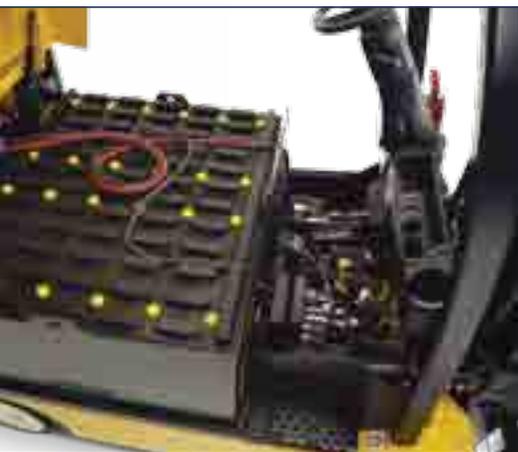
The unique Power-Assisted Braking system further increases brake and drive train life by automatically utilizing traction motor braking in proportion to operator brake pedal pressure, reducing the demand on the service brakes. This feature also reduces operator braking effort by up to 40 percent.

The Yale Hi-Vis™ Mast is designed to maximize visibility, performance and durability. Mast rollers are canted 3 degrees to provide full-face contact of the roller with the web and flange of the mast channel. Unlike straight load rollers used by other manufacturers, this design decreases the possibility of premature roller failure or channel extrusion formation caused by uneven wear.



# YALE GOLD SERVICE

Not only is the ERC-VH series designed to require less maintenance, it is also designed to be extremely easy to service. The rear-opening, steel hood and the on-board diagnostics of these trucks are designed with service details in mind. The outstanding component access makes servicing fast, easy and convenient. It's the new standard in truck serviceability.



## INNOVATIVE SERVICEABILITY

At Yale, our engineers have equipped the ERC-VH series trucks with easily-removable floor plates, a rear-hinged hood that offers exceptional access to components, common-sense wire and hose routing, clearly numbered wires with sealed connectors, CANbus technology and brushless AC motors. All make the VH series easy to

Yale has reduced regular service requirements on the ERC-VH series truck. 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. Motor controllers are mounted on finned heat sinks with integral cooling fans, greatly reducing heat.



Two-piece floor plate allows for quick and easy service access. Removable floor plate side panels provide additional entry to key components.

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.



The Intellix VSM continuously monitors and controls all major truck functions for efficiency and proper operation. The innovative ERC080-120VH display alerts the operator of any system concerns.

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

Power Assisted Braking helps 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.

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## **SUPPORTING CUSTOMERS WITH WORLD-CLASS PARTS & SERVICE**

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Yale has four Parts Distribution Centers strategically located around the world to provide a full range of original equipment and aftermarket parts that maintain our customers' uptime. In fact, our Guaranteed Availability Program ensures that parts for all lift trucks within two years of age will be available within 24 hours, 100% of the time.\*

\* Contact your local dealer for program details.

We also take that commitment into the field with the Yale 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 that lift trucks are repaired right the first time.



# APPLICATION-MATCHED PERFORMANCE

From tough, short shuttle applications or long runs, to ramp usage, Yale's ERC080-120VH 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.

- Application Environmental Construction
  - » Standard Construction
    - Operating Temperatures: +32 °F to +120 °F
  - » Cooler/Freezer Package Option
    - Operating Temperatures: 0 °F to +120 °F
- Return to Set Tilt Option brings the load to a preset position when tilting for easy operation.
- Operator Selectable Performance Modes allow varying levels of truck performance.
- Rapid Charge Option further improves productivity by eliminating battery changes.
- 36-, 48- or 80-volt systems provide excellent performance.
- 80-volt control system option for maximum performance in long-haul applications.
- Extended Shift can be disabled for increased productivity levels.

## OPTIONAL CUSTOMIZATION



Optional wide tread, non-marking, and lug tread tires are available to suit a wide variety of applications. An optional hydraulic accumulator affords shock and vibration dampening to the load, the truck and the operator. Various environmental packages are available including UL EE and cooler/freezer options, ensuring the right truck for the application.

# ENVIRONMENTALLY TRUSTWORTHY

At Yale, we are developing and producing lift trucks that improve efficiency and reduce energy consumption for our customers' operations.



Yale has been a leading producer of zero-emission trucks for years, and we are rolling out a new generation of innovative trucks that are more efficient than ever before. We are collaborating on next-generation energy technology to enable a broader group of customers to more easily make the switch from internal-combustion engine trucks to zero-emission electric trucks.

## ZERO EMISSION ELECTRIC POWERED LIFT TRUCKS

Yale is one of the largest volume producers of zero emissions electric lift trucks in the North American market. The company is among the earliest adopters of energy-efficient AC motor and controller technology. Our continued pursuit of

improved energy efficiency is affirmed by competitive testing which shows that the Yale® ERC080-120VH electric rider product offers some of the best energy efficiency (energy used per load moved) of the leading lift trucks in its class in North America.

## **GREEN INNOVATIONS**

For our electric trucks, Yale has introduced a system that recaptures energy into the truck during braking. This energy is then reused, lowering the overall energy consumption of the truck. Through innovative engineering, we reduce non-productive energy use throughout the vehicle by means of weight reduction, drive-train efficiency (patents pending) and hydraulic system efficiency. Yale is among the first to use working fuel cells in actual applications.



# 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 a complete line of products and services through our extensive, independent dealer network, featuring 340 worldwide dealer locations (225 in 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 need 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.

## YALE MATERIALS HANDLING CORPORATION

P.O. Box 7367, Greenville, NC 27835-7367

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Manufactured in our own ISO 9001 and 14001 Registered Facilities

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Trucks shown with optional equipment.

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