

# ERP

045-070VL

*An Indoor / Outdoor  
Pneumatic Electric*



Electric Rider Trucks 4,500 - 7,000 lbs.

Alternative Fuel-Ready

**Yale**   
People. Products. Productivity.

# An Indoor / Outdoor Pneumatic Electric





**Yale**

## **Pneumatic Tires**

Pneumatic tires reduce vibration to provide a comfortable ride even over rough surfaces.

## **Drop Battery Box**

The innovative "Drop Battery Box" results in both a low seat position and low step height, reducing operator effort for entry and exit.



# Yale ultimate productivity

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



All trucks shown with optional equipment

Available in 80 volts, ERP-VL trucks are not only designed to meet but also to exceed your application requirements, providing maximum performance in long-haul applications. All models come standard with cool running, low maintenance AC traction and hydraulic motors.



The ERP-VL series combines proven AC technology with the innovative “Extended Shift” function to provide an excellent balance between battery run time and truck productivity. This highly efficient system provides longer battery run time for increased throughput, and the “Extended Shift” can be disabled for increased productivity.

Four **operator selectable performance modes** 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. A Zero Turn Radius Steer Axle and Dual AC Drive Motors enable a tight turning radius, improving maneuverability and productivity.

The optional **Premium Performance Package** provides up to a 16% increase in travel speeds and a 26% increase in lift speeds, providing unmatched levels of productivity.

The “**Continuous Stability Enhancement**” system improves truck stability in a simple, maintenance-free design, without compromising uneven surface travel.

The **Automatic Park Brake** automatically sets when the truck stops.



Selectable performance modes



Optional Premium Performance Package



Longer battery run time

**ultimate**  
**performance**

# Yale **intelligent ergonomics**

The Yale<sup>®</sup> ERP-VL is an “operator’s truck”. 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.



All trucks shown with optional equipment

The Yale<sup>®</sup> ERP-VL is designed 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 ERP-VL series' open floor plate design maximizes the available space for the driver's feet, providing up to **18% 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 reduces operator fatigue.

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 has an infinitely adjustable tilt angle. 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™ mini-lever 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 with a convenient horn button and battery disconnect.



Superior floor space



Rear driving comfort



Standard hydraulic controls



Optional Accutouch™ minilever

**innovative**  
**design**

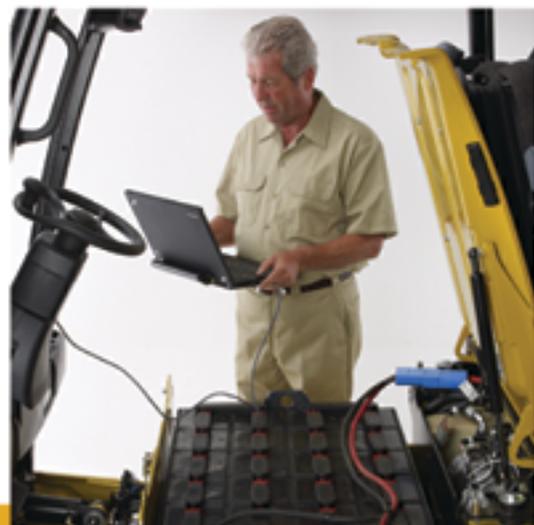
# Yale gold service

Not only is the ERP-VL series designed to require less maintenance, it is also designed to be extremely easy to service. The rear-opening, one-piece 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.



All trucks shown with optional equipment

At Yale, our engineers have equipped the ERP-VL series trucks with easily-removable floor plates, a rear-hinged hood that opens to nearly 80 degrees, common-sense wire and hose routing and clearly numbered wires with sealed connectors, **CANbus technology** reduces wiring and connections, improving system reliability. Sealed electrical connections resist moisture and dirt, increasing uptime.



Yale has **extended regular service requirements** on the ERP-VL 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, and the innovative **Thermal Management System** keeps productivity high while protecting key truck 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 (Vehicle Systems Manager)** continuously monitors and controls all major truck functions for efficiency and proper operation. The innovative ERP-VL display alerts the operator of any system concerns.

The optimally positioned operator interface display provides easy access to truck programming and system status, including hour meters for truck, traction, and hydraulic systems. 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. The Auto Deceleration System reduces the demand on the brakes, further improving brake life.

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



Intellix Vehicle Systems Manager



Innovative display



Easy service access

**maximum**  
**access**

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



All trucks shown with optional equipment

The highly efficient design of the ERP-VL improves battery shift life, saving dollars in energy costs and increasing productivity through improved uptime.



ERP-VL 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 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.

The ERP-VL series offers **substantial operating cost savings** over competitive models. Optional pneumatic-shaped, solid tires offer greater stability and durability in certain applications. An optional hydraulic accumulator affords shock and vibration dampening to the load, the truck and the operator.

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.

**Wet disc brakes** virtually eliminate brake maintenance, while power assisted braking reduces strain on drive unit components.

**500 hour service intervals** provide increased savings through reduced maintenance requirements.

#### **Application/Environmental Construction Options**

In response to customer requests for an electric truck that can be operated outside and in adverse environments, Yale has released the following Application/Environmental construction options:

- IP54 sealed drive axle/drive motors with belly pan and side shields
- Outdoor protection/wash-down package
- Front mud guards
- Tilt cylinder boots

These optional enhancements make the ERP045-070VL suitable for outdoor use in applications where only internal combustion engine trucks have been successful in the past.



Excellent battery shift life



Power-assisted braking



**intelligent  
investment**

# Yale Industrial Grade

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® ERP-VL 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!



## Motors

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 hydraulic motor, simplifying the system and increasing reliability. All motors are insulated with Class H insulation for superior heat resistance.

## Electrical System

Linking the electronic components of a lift truck together for efficient operation, the electrical system must be durable and reliable. 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.



## Drive Axle

The drive axle of a lift truck is required to absorb significant forces during normal operation. High strength gears and shafts resist stress from quick directional changes. The tough cast housing absorbs shock and vibration. Power Assisted Brakes reduce brake wear and strain on drive unit components.



# Critical Components



Truck shown with optional equipment



## Hydraulics

Hydraulics are the “muscles” of a lift truck, providing the force necessary to lift heavy loads all shift long. O-Ring Face Seal fittings resist leaks. The 10 micron hydraulic filter helps keep the hydraulic fluid clean. Cast iron “stacked” valve sections provide excellent rigidity.



## Steer Axle

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. The Yale Continuous Stability Enhancement system enhances truck stability in a simple, maintenance-free design, without compromising uneven surface travel.

## Mast

A lift truck’s mast is required to absorb significant stress during lifting and lowering operations, without incurring excessive maintenance downtime. 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.



## Frame

The unitized design and the welded steel construction of the Yale<sup>®</sup> ERP-VL 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.

# ERP-VL highlights/options



## Dependability highlights

	ERC-VA
AC traction and hydraulic motors	Std
Intellix VSM (Vehicle Systems Manager)	Std
Double sealed electrical connections	Std
Electronic horn	Std
O-ring face seal hydraulic fittings	Std
Power Assisted Braking	Std
Canted, full face mast rollers	Std
Tough, cast ductile iron steer axle	Std
High strength drive axle gears and shafts	Std

## Dependability options

	ERC-VA
Accumulator	Opt
Full LED Light Package	Opt
Impact Monitor	Opt
Operator Daily Checklist	Opt
Hydraulic System Monitoring	Opt
Attachment Carriage	Opt
Synchronous Steering	Opt
Red (HI-VIS) ELR (Emergency Locking Retractor) Non-cinch Seat Belt with Start Interlock	Opt
Integrated Rapid Charge	Opt
IP54 Sealed Drive Axle/Drive Motors with Belly Pan and Side Shields	Opt
Outdoor Protection/Washdown Package	Opt
Front mud guards	Opt
Tilt Cylinder Boots	Opt

## Productivity highlights

	ERC-VA
Transistorized AC powered traction control with smooth directional changes	Std
Brushless AC traction and hydraulic motors	Std
On-demand power steering	Std
Enhanced dash display	Std
Advanced Thermal Management System	Std
Transistor hydraulics	Std
80 volt power	Std
Auto Deceleration System (automatically slows truck when accelerator pedal is released)	Std
Extended Shift functionality	Std
Four operator selectable performance modes	Std
48" high load back rest extension	Std
Type "E" UL construction	Std

## Productivity options

	ERC-VA
Premium Performance Package	Opt
Accutouch e-Hydraulic Mini-levers with thumb directional control	Opt
Foot Directional Control	Opt
10 degree fwd/5 degree back (Bottler's) tilt	Opt
Return to Set Tilt	Opt
Various mast heights	Opt
Integral sideshifter	Opt
Various tire options	Opt
Various light packages	Opt
Optional battery compartments	Opt
Audible Alarm - Reverse Operation	Opt
Synchronous Steering	Opt
Red (HI-VIS) ELR (Emergency Locking Retractor) Non-cinch Seat Belt with Start Interlock	Opt
Low mount display	Opt
Integrated Rapid Charge	Opt
IP54 Sealed Drive Axle/Drive Motors with Belly Pan and Side Shields	Opt
Outdoor Protection/Washdown Package	Opt
Front mud guards	Opt
Tilt Cylinder Boots	Opt

## Ergonomic highlights

	ERC-VA
Automatic Park Brake	Std
Ergonomically designed contoured, cushioned seats	Std
Non-cinching seat belt	Std
Seat belt and hip restraint	Std
Excellent maneuverability	Std
Operator Interface Display	Std
Hi-Vis™ mast	Std
Seat-side mechanical hydraulic control levers	Std
Tilt steering column	Std
Wide open floor	Std
Power Assisted Braking	Std
Low effort brake pedal	Std
Low height entry step	Std
Rubber floor mats	Std
Seat-side Thumb Activated Directional Control	Std



# ERP-VL highlights/options

## Ergonomic options

	ERC-VA
Accutouch e-Hydraulic Mini-levers with thumb directional control	Opt
Foot Directional Control Pedal	Opt
Telescoping Steer Column with Tilt Memory	Opt
Return to Set Tilt	Opt
Full suspension seat in cloth or vinyl	Opt
Side battery removal with battery rollers	Opt
Operator's compartment dome light	Opt
Reverse drive handle with horn	Opt
Full steel operator's compartment cab	Opt
Synchronous Steering	Opt
Red (HI-VIS) ELR (Emergency Locking Retractor) Non-cinch Seat Belt with Start Interlock	Opt
Low Mount Display	Opt
Integrated Rapid Charge	Opt

## Service highlights

	ERC-VA
Easy service access	Std
Intellix VSM (Vehicle Systems Manager)	Std
Advanced on-board diagnostics and truck set-up using display	Std
Fully integrated CANbus control	Std
Advanced Thermal Management System	Std
Brushless AC Traction and Hydraulic Motors	Std
Flush-faced mast channels	Std
Three degree angle canted load rollers	Std
Hard chrome plated hydraulic cylinder rods	Std
Self adjusting brakes with improved life due to Auto Deceleration System	Std
PC Interface	Std
500 hour service intervals	Std
Removable floor side plates	Std

## Service options

	ERC-VA
Side battery removal	Opt
Full LED Light Package	Opt
Hydraulic System Monitoring	Opt
Impact Monitor	Opt
Attachment Extension Tubes (with/without Quick Disconnect Fittings)	Opt
Low Mount Display	Opt
IP54 Sealed Drive Axle/Drive Motors with Belly Pan and Side Shields	Opt
Outdoor Protection/Washdown Package	Opt
Front mud guards	Opt
Tilt Cylinder Boots	Opt

## Cost of Ownership highlights

	ERC-VA
Auto Deceleration & Regenerative Braking	Std
Electronic Systems Monitoring	Std
Extended Shift	Std
Brushless AC Traction and Hydraulic Motors	Std
Transistor Controlled Hydraulics	Std
Power Assisted Braking	Std
Advanced Thermal Management System	Std
Electronic Horn	Std

## Cost of Ownership options

	ERC-VA
Accumulator	Opt
Full LED Light Package	Opt
Type "EE" UL construction	Opt
Impact Monitor	Opt
Load Weight Indicator	Opt
Hydraulic System Monitoring	Opt
Operator Daily Checklist	Opt
Low mount display	Opt
Integrated rapid charge	Opt
IP54 Sealed Drive Axle/Drive Motors with Belly Pan and Side Shields	Opt
Outdoor Protection/Washdown Package	Opt
Front mud guards	Opt
Tilt Cylinder Boots	Opt

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Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale Industrial Truck Dealer for further information. Specifications are subject to change without notice.

Sales · Rentals · Financing · Fleet Management  
Parts · Service · Operator Training



Manufactured in our ISO 9001 and ISO 14001 Registered Facilities



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