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VRCs (VERTICAL RECIPROCATING CONVEYORS)



Whatever the Load or Need

Whatever the load may be, moving materials just gets easier with a reliable and easy-to-install Wildeck VRC. They can safely transfer pallet loads, as well as carts and boxes, that may not fit on a forklift.

Whether you need the simplicity of a hydraulic VRC, or the faster, continuous operation of a mechanical unit; Wildeck's rugged and reliable VRCs can be configured to meet your specific load, height, and speed requirements.

Easy Movement of Materials

Wildeck Vertical Reciprocating Conveyors (VCRs) are a cost-effective, safe, and easy way to move materials from one elevation to another. They are ideally suited for the safe and efficient movement of materials to a mezzanine, rack storage system with catwalks, or any new or existing upper floor level.

Safety and Efficiency Matter

Wildeck VRCs are safer than using a forklift truck or manpower to move materials between levels and are easier and less costly to operate and maintain than elevators or forklift trucks. VRCs are classified as a material conveyor and operators do not require OSHA forklift training.

Wildeck's staff of experienced mechanical and electrical engineers can customize a VRC for virtually any lifting application or environment.

Made in the USA

Wildeck VRCs are manufactured in the USA and meet ANSI / ASME B20.1 safety standards for conveyors and applicable MHIA guidelines.

VRCs are for the safe transport of materials only.

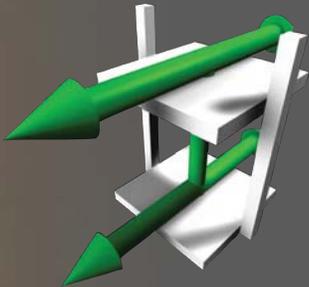
 **WARNING**

RIDERS ARE NOT PERMITTED

only lifts that matter

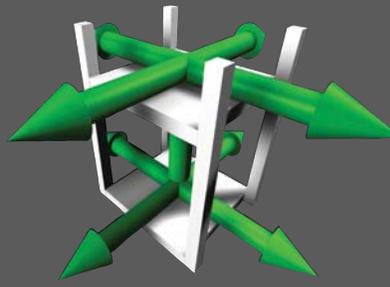


VRC LOADING CONFIGURATIONS



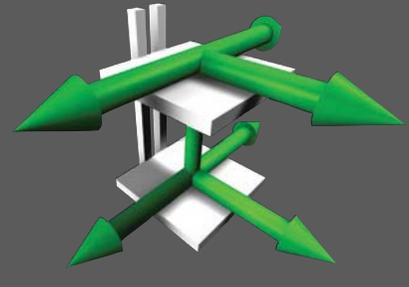
STRADDLE

- ▶ Very structurally stable configuration
- ▶ Reduces design loads and component wear
- ▶ Allows "C" or "Z" loading/unloading
- ▶ Provides flexibility to maneuver loads



4-POST MECHANICAL

- ▶ Best suited for lifting extremely large and/or heavy loads
- ▶ Permits loading/unloading from all four sides
- ▶ Provides maximum application flexibility



CANTILEVER

- ▶ Allows material movement with the smallest possible equipment footprint
- ▶ May be used where headroom is restricted
- ▶ Allows "C," "Z," or 90-degree loading/unloading
- ▶ Provides extra flexibility to maneuver loads
- ▶ Free-standing models available with optional support structure

Typical VRC Applications:

- ▶ **Distribution Centers** - integration into automated conveyor systems, ASRS systems, and material sortation systems
- ▶ **Manufacturing or Assembly Plants** - moving pallets, carts, totes, bins, picking, and kitting operations
- ▶ **Pharmaceutical Operations** - moving materials in process, drums, tanks, and bagged materials
- ▶ **Automotive** - moving bulky parts and materials in dealership parts rooms and cars
- ▶ **Self-Storage Operations** - moving tenants' property to upper-level storage units
- ▶ **Retail, Mercantile** - moving stock, incoming materials, displays, fixtures, etc.
- ▶ **Printing Operations** - moving pallets or rolls of paper, die boards, plates, and printed materials in process
- ▶ **Schools and Universities** - moving supplies, tables, chairs, sports equipment, band equipment, etc.
- ▶ **Buildings of Worship** - moving stored equipment, banquet supplies, books, lecterns, statuary, etc.
- ▶ **Government and Military Facilities** - moving stored equipment, records, armaments, and supplies
- ▶ **Airports** - luggage and baggage handling, and more
- ▶ **Hotels, Resorts** - moving tables, chairs, housekeeping supplies, and other materials
- ▶ **Theaters and Entertainment Venues** - moving stage equipment, sets, costumes, etc.
- ▶ **Casinos** - moving moneyboxes, gaming equipment, supplies, tables, chairs, etc.
- ▶ **Country Clubs** - moving stored supplies, tables, chairs, golf clubs, golf carts, banquet supplies, etc.
- ▶ **Restaurants, Bars, Taverns** - moving supplies, food, tables, chairs, banquet supplies, and beverages

MECHANICAL LIFTS

WILDECK VRCs GIVE YOU MORE

Wildeck's variety of mechanical lifts are well suited for multi-level applications that demand faster speeds and high cycle rates. Wildeck's reliable chain drive lifting system has been designed for the tough duty these applications require and provides long and trouble-free service life. Take a close look at the standard features we include; you'll quickly realize a Wildeck mechanical VRC gives you more.

Standard Features - Mechanical VRCs

- ▶ Lift capacities from 100 to 30,000 lbs.
- ▶ Standard platform size up to 12 ft. wide x 30 ft. long
- ▶ Tough lifting motor sized for continuous duty
- ▶ High service factor gearbox
- ▶ Alloy steel drive shaft for durability
- ▶ Dual roller chains (instead of cables) for long service life
- ▶ Quality, brand-name electrical components
- ▶ UL-508A labeled control panel
- ▶ Fabricated by AWS D1.1 Certified Welders
- ▶ Bracing material provided
- ▶ Structural grade fasteners and floor anchors provided
- ▶ Standard units are designed for "bolt-together" installation (field welding not required)
- ▶ 'Gate Closed' and 'Ready' indicator lights on control panel
- ▶ Self-diagnostic control system on all multi-level units (more than two stops)
- ▶ Momentary contact 'Call' and 'Send' control buttons at all accessed floor levels
- ▶ Instantaneous overload protection (fixed setpoint)
- ▶ Broken chain free-fall safety system
- ▶ Lifting heights up to 150 ft. (other heights available)
- ▶ Standard speed: 28 fpm (feet per minute) – Higher speeds available
- ▶ Industrial strength carriage platform to handle heavy point loads
- ▶ Fast-acting brake system for crisp, accurate stops

Options:

- ▶ Modular multi-level systems
- ▶ Variable frequency drive system providing 'soft-start' and 'soft-stop' to cushion loads
- ▶ Higher speeds
- ▶ Larger carriage sizes
- ▶ Full height enclosures available
- ▶ Single-stop unit can be fully-assembled, tested, and ready to operate



AUTOMATED SYSTEMS

Wildeck's automated VRCs are best suited for in-process applications requiring faster speeds and high cycle rates. When integrated with conveyors, they can help you achieve maximum process efficiency through the automated transfer of materials between levels.

Select Features:

- ▶ Available with or without controls
- ▶ Available with or without carriage conveyor
- ▶ Wire carrier for carriage power and controls
- ▶ Precision carriage guide rails provide smooth operation



STRADDLE

Features:

- ▶ 'Standard' Mechanical Straddle: Lift Capacity up to 6,000 lbs.
- ▶ 'High-Load' Mechanical Straddle: Lift Capacity up to 12,000 lbs.
- ▶ Platform Sizes: Up to 12 ft. wide x 15 ft. long
- ▶ Loading / Unloading: "C" or "Z" loading patterns



4-POST LIFTS

Features:

- ▶ 'Standard' Mechanical 4-Post: Lift Capacity up to 15,000 lbs.
- ▶ 'High-Load' Mechanical 4-Post: Lift Capacity up to 30,000 lbs.
- ▶ Platform Sizes: Up to 12 ft. wide x 30 ft. long
- ▶ Loading / Unloading: "C," "Z," 90 degree, or 4-side loading patterns



CANTILEVER

Features:

- ▶ 'Standard' Mechanical Cantilever: Lift Capacity up to 5,000 lbs.
- ▶ 'High-Load' Mechanical Cantilever: Lift Capacity up to 10,000 lbs.
- ▶ Platform sizes: Up to 12 ft. wide x 8 ft. long
- ▶ Loading / Unloading: "C," "Z," or 90-degree loading patterns
- ▶ Freestanding models available with optional support structure

EZ PRO™ OPERATOR STATION

When operating a VRC, certain conditions must be met before the lift responds. With Wildeck's EZ Pro™ Operator Station, authorized users can safely activate the lift using the key lock, quickly determine the status of the lift, and call or send material on its way.

EZ Pro™ Features & Benefits:

- ▶ Provides lift security and safer operation
- ▶ Key lock permits access only by authorized users
- ▶ (8) LED lights clearly signal lift position and gate/door status
- ▶ Bright green LED quickly signals lift is 'Ready to Run'
- ▶ Communicates exclusively with Wildeck VRCs
- ▶ Available for new or retrofit applications



AUTOSENZ™ OVERLOAD DETECTION SYSTEM



Available on specific mechanical VRCs, Wildeck's innovative AutoSenz™ overload detection system (patent pending), with easy-to-read graphical display interface, monitors and protects your VRC from jams or overload conditions.

AutoSenz™ Features & Benefits:

- ▶ Continuous VRC monitoring
- ▶ Senses overload conditions
- ▶ Protects VRC components
- ▶ Signals operator to take action
- ▶ Records VRC events/history
- ▶ Extensive system diagnostics
- ▶ Increases VRC uptime
- ▶ Extends VRC life



MECHANICAL MODULAR LIFTS



DELTA™ VRC

Modular • Safe • Easy to Install

Wildeck's Delta™ Vertical Reciprocating Conveyor (VRC) is a safe and reliable way to transfer your material from level to level. The Delta VRC offers the lower cost of a hydraulic unit while incorporating the many benefits of a mechanical lift.

The Delta ships in large sections and installs in less than a day; which minimizes costs and disruption to your operation. Wildeck's unique and innovative Delta design provides a VRC that is not only durable and reliable, but extremely easy to maintain. When you look at a Delta VRC, you'll notice Wildeck's quality and many high value features that are designed in from the start.

Select Features:

- ▶ Lift Capacity: 2,200 lbs.
- ▶ Lifting Speed: 15 fpm (standard) – other speeds available
- ▶ Platform Size: 5 ft. wide x 6 ft. long x 7 ft. high
- ▶ Loading / Unloading: "Z" loading – standard
"C" loading available
- ▶ Gates: Single Swing Gate (standard) – other gates available
- ▶ Safe, integrated, full-height perimeter guarding
- ▶ Fully-enclosed carriage with galvanized tread plate floor and walls
- ▶ Expanded metal roof
- ▶ Modular construction for fast and easy 'bolt-together' installation
- ▶ Fabricated by certified welders
- ▶ Optional galvanized 'winged' loading ramp or pit mounted
- ▶ Electric chain drive lift system for long service life
- ▶ Dual roller chains for redundant safety
- ▶ UL-508A labeled control panel
- ▶ Fully pre-wired for 'plug-and-play' electrical connection
- ▶ Momentary contact 'Up' and 'Down' push-button controls
- ▶ Broken/slack chain protection provided by a dual-cam safety system





AUTOMATED TOTE LIFT

Modular • Flexible • Safe

- ▶ Lift Capacity: 50 to 75 lbs.
- ▶ Lifting Speeds: 40 to 110 fpm (with 'soft-start' and 'soft-stop' motor control)
- ▶ Load Sizes: Up to 2 ft.- 6 inches wide x 3 ft. long x 3 ft. high
- ▶ Carriage Platform: An open framing system supports the carriage conveyor section
- ▶ Loading / Unloading: "C" or "Z" loading patterns
- ▶ Carriage is guided between (4) four structural tube steel members that act as the frame for the perimeter safety enclosure
- ▶ Footprint: Approx. 3 ft. wide by 4 ft. long (not including control panels or in-feed and discharge conveyor sections)
- ▶ Full height perimeter guarding is integral to the VRC system
- ▶ Interlocked access door for cleaning and maintenance
- ▶ Unit accesses a lower level and one or more stops above ground
- ▶ Equipped with 3-phase TEFC brake-motors with a fast acting, spring-set electrical brake
- ▶ Helical gear reducer transfers motion through a common drive shaft, sprockets, and dual-roller lifting chains
- ▶ Unit is partially pre-wired to reduce installation time and cost. The main UL listed control panel is integrated into the machine. The standard control panel is rated NEMA 1 and is labeled UL-508A
- ▶ System includes one section of in-feed conveyor, one section of carriage mounted conveyor, and one section of discharge conveyor
- ▶ Conveyors are powered roller type. Horizontal speeds: 30 to 110 fpm.



MODULAR BOX LIFT

Reliable • Efficient • Safe

- ▶ Lift Capacity: up to 500 lbs.
- ▶ Lifting Speed: 40 fpm
- ▶ Carriage Platform Size: 3 ft. wide x 3 ft. long x 3 ft. high (standard)
- ▶ Light: Carriage light available
- ▶ Loading / Unloading: "C," "Z," or 90 degree loading patterns
- ▶ Lift heights designed to meet application requirements. Multi-level configurations available.
- ▶ Safe, redundant, and long life dual lifting chains used instead of cables
- ▶ Fast-acting braking system provides superior positioning accuracy
- ▶ Instantaneous overload protection
- ▶ Continuous-duty motor, alloy steel drive shaft, and high service factor gear box provide extended service life
- ▶ Durable, heavy gauge steel construction fabricated by AWS D1.1 Certified Welders
- ▶ High performance wheels guide the carriage along the high strength steel structure
- ▶ Meets all safety guidelines for vertical conveyors
- ▶ UL-508A labeled control panel
- ▶ Factory assembled and tested
- ▶ Stackable, self-contained, modular design for easy shipping and fast, trouble-free installation
- ▶ All interlocked gates, call / send stations, and safety enclosures are preassembled and prewired at the factory to reduce installation time
- ▶ Custom sizes and special options are available

HYDRAULIC LIFTS

MORE POWER, QUALITY AND VALUE

Wildeck's modular hydraulic lifts provide extensive lifting power at a competitive price and are well-suited for single-level (ground plus one) material movement at moderate cycle rates. The Straddle and Cantilever designs are available with lift capacities up to 4,000 lbs.

Standard Features - Hydraulic VRCs

- ▶ Lift Capacity: 1,000 to 4,000 lbs.
- ▶ Lifting Height: Up to 19 ft.
- ▶ Lifting Speed: 20 fpm
- ▶ UL-508A labeled control panel
- ▶ 'Gate Closed' indicator light on control panel
- ▶ Momentary contact 'Up' and 'Down' push-button controls
- ▶ All control wiring stepped down to 24 volts for safety
- ▶ Control panel and hydraulic pump unit ship as a prewired assembly
- ▶ Fabricated by AWS D1.1 Certified Welders
- ▶ Constructed for "bolt-together" installation. Field welding not required
- ▶ All bracing material provided
- ▶ Structural grade fasteners and floor anchors provided
- ▶ Industrial strength carriage platform handles heavy point loads
- ▶ Roller bearings with easy-access grease fittings for all wheels and sleeves
- ▶ Hydraulic pump motor sized for continuous duty
- ▶ Dual hydraulic rams and lifting cables provide redundant safety
- ▶ Hydraulic rams pull, rather than push, for added strength and longer life
- ▶ Hydraulic operating pressure maintained below 1,600 psi for extended component life
- ▶ Oversized oil reservoir provided to reduce possibility of oil overheating
- ▶ Automatic shut-off valves for broken hydraulic hoses
- ▶ Manual lowering valve provided for emergency use
- ▶ High-flex IWRC lifting cable provides extended service life
- ▶ Broken cable free-fall safety cams rated for 7,000 lbs.



STRADDLE

Features:

- ▶ Platform Sizes: Up to 8 ft. wide x 12 ft. long
- ▶ Loading / Unloading: "C" or "Z" loading patterns
- ▶ Structurally stable configuration offers reduced bracing and lower wheel loads for extended service life.



CANTILEVER

Features:

- ▶ Platform Sizes: Up to 8 ft. wide x 6 ft. long
- ▶ Loading / Unloading: "C," "Z," or 90 degree loading patterns
- ▶ Smaller equipment footprint
- ▶ Lower overall equipment height
- ▶ Freestanding models available with optional support structure



Hydraulic Pump System with control panel

VRC OPTIONS

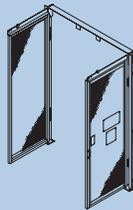
Wildeck offers an array of VRC options to suit your specific needs: Gates, Carriages, Ramps, Enclosures, Operator Controls, and more. Safety Guarding Products are also available to protect VRC loading and unloading areas.

GATES

All Wildeck VRCs and gates meet applicable codes and are equipped with 'elevator style' electro-mechanical door locks for superior performance and durability.

BI-PARTING SWING GATE

Requires 8' vertical clearance at either level



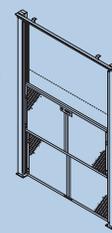
SINGLE PANEL VERTICAL GATE

Requires 14' 4" vertical clearance at either level



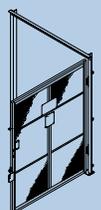
BI-PANEL VERTICAL ACTING GATE

Requires 11' 6" vertical clearance at either level



HINGED RIGHT OR LEFT SWING GATE

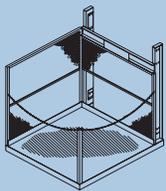
Requires 8' vertical clearance at either level



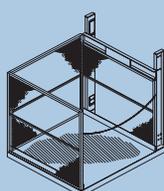
CARRIAGES

Carriage floors and walls are painted and can be protected with galvanized diamond plate "armor." Carriage interiors with 1/4-armor, 1/2-armor, 3/4-armor and full-armor are available.

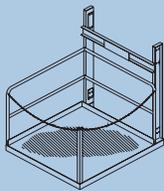
CANTILEVER



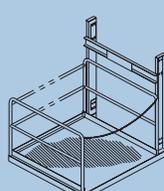
90° Load Carriage with expanded metal



"C" or "Z" Load Carriage with expanded metal

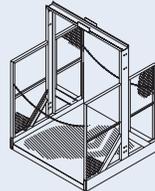


90° Load Carriage with rails

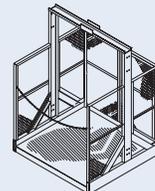


"C" or "Z" Load Carriage with rails

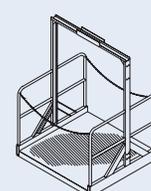
STRADDLE



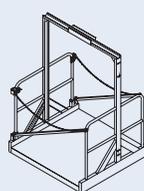
"Z" Load Carriage with expanded metal



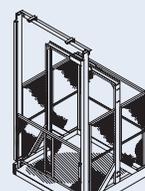
"C" Load Carriage with galvanized tread plate



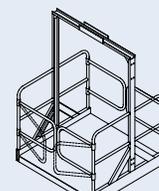
"Z" Load Carriage with rails



Diagonal Load Bars



Vertical Gate on Carriage (Cantilever or Straddle)

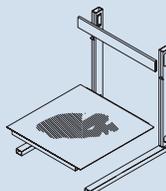


"Z" Load Straddle Carriage with pipe gates

KNOCK DOWN



Knock-Down Straddle Carriage



Knock-Down Cantilever Carriage

ARMORCAR™



- ▶ Load capacity: Up to 2,000 lbs.
- ▶ Standard Carriage Platform: 72"W x 96"L x 84"H
- ▶ Fully enclosed carriage with galvanized steel diamond plate floor and walls
- ▶ Roof: Standard flattened expanded steel mesh
- ▶ Recessed light fixture

RAMPS

VRCs can be pit mounted or installed at ground level with loading ramps.

STANDARD RAMP

- ▶ Strong structural framing
- ▶ Width and length vary according to VRC



WINGED RAMP

- ▶ Convenient side access
- ▶ Painted or galvanized steel diamond plate over structural framing

