

AJAY - THE INNOVATIVE LEADER IN STORAGE LIFTS SINCE 1983

Vertical Reciprocating Conveyors (VRCs) Storage Lifts are very efficient for moving loads, to and from other floors, mezzanines, lofts and basements. AJAY VRC Storage Lifts can be installed without costly and time-consuming building modifications. Our two, three & four level VRC Storage Lifts are free standing and require very little onsite mechanical assembly. No roof extensions, special concrete piers, cables, clamps, pulleys, structural steel supports, concrete supporting shaft ways, extra deep EPA oil sump pits, major electrical panel service, or expensive on-going maintenance cost that passenger elevators or other VRC lifts may require.

“THERE IS NO EQUAL”®

WHAT MAKES AJAY EQUIPMENT STAND OUT?

- ◆ We are the largest (VRC) Storage Lift dealer with installations in North & Central America & Caribbean Islands with thousands of Storage Lifts sold. The owner has been in the hydraulic lift industry for over 40 years, and when combined with the company's staff we have over 100 years of Storage Lift experience. This enables you our customer, to benefit from our wealth of knowledge within the storage industry.
- ◆ We have multiple installation crews that have extensive experience in retrofitting VRC Storage Lifts into older or existing storage facilities and vast installation experience with new locations. All of our Storage Lift installation work is done 100% turnkey by AJAY Equipment Corporation.
- ◆ Ajay has a team of experts to help you with your Storage Lift layout needs including our engineers at the manufacturing plant that will fulfill any additional specific design requirements. We have an excellent service department that can quickly respond locally with our own fleet of well stocked service trucks. In the event that your lifts would ever need attention in other areas, we have at our disposal a network of established dealers nationwide to help you with emergency service.

INNOVATIVE STANDARD DESIGN FEATURES, EXCLUSIVE TO AJAY VRC'S

An Storage Industry Exclusive All Welded Rigid Truss Design Mast--Angled cross members adds strength and rigidity to minimize twisting and deflection and to provide you with *the strongest free standing VRC STORAGE LIFT AVAILABLE.*

An Automatic Carrier Car Roof Mounted Light-- Interior of car automatically lights upon entry to the carrier car.

Exclusive LED Indicator Check Light System--Automatically checks, and then provides a visual light indicating that the entry doors, roll-up-doors and solenoid slide bolt interlocks are all closed and properly latched, before the Storage Lift will operate. *In use by AJAY since 1995.*

Entry Door-Gate Interlocks--Exclusive "next generation series" 4-way stainless steel slide bolt interlock system, which provides the utmost entry door security, for your VRC storage lift, and is supplied *solely by AJAY Equipment since 1991.*

Safe Low Voltage Controls--All operational controls and all other related control components are all wired with UL 24 volt elevator wire. This helps to alleviate the potential for serious injury due to a possible electrical short. *This has been an AJAY safety feature since 1985.*

Carrier/Platform Mounted F.R.P. Enclosure--*This design is another AJAY feature since 1992.* Our F.R.P. (fiberglass reinforced panel) carrier/platform mounted enclosure is extremely durable, dent and scratch resistant, looks great aesthetically, and is entirely finished framed in heavy gauge anodized aluminum. *Since 1999 the floor has been finished with "nonskid polished aluminum safety tread floor plate."*

Factory Tested--Each Storage Lift is completely welded, assembled and tested at the factory prior to shipment.

Warranty--A 10 year mast tower, two-year parts and two-year labor warranty is provided when AJAY Equipment installs and maintains the Storage Lift. *The very best warranty in the industry since 1988.*

Storage Lift Order Specifications:

1. Carrier/Platform Size:

Determine size based on maximum load dimensions. Allow for foreseeable future load requirements and for adequate maneuvering space.
*Most popular sizes for storage facilities.

Platform Length (B)

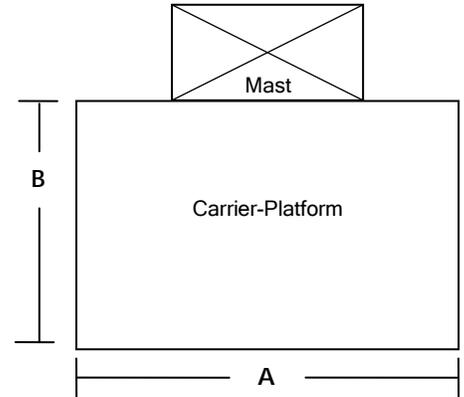
30"	36"
42"	48"
54"	*60"
66"	*72"
78"	84"

Platform Width (A)

30"	36"
42"	48"
54"	60"
66"	72"
78"	*84"
90"	*96"
102"	108"

Notes regarding platform dimensions:

Add 1" for operating clearance to all sides of platform!



Carrier/platform size, capacity and quantity of VRC storage lifts are best determined by square footage, length of building, and by size or unit mix of storage units on each level that the storage lift will service.

2. Vertical Travel:

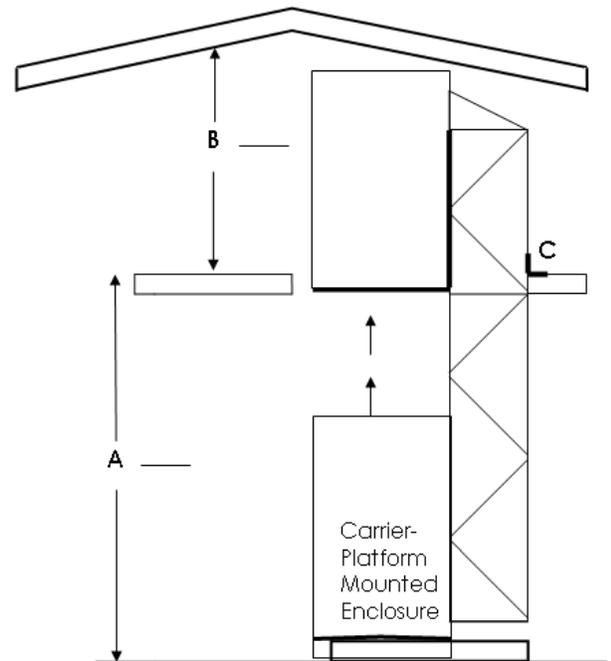
Distance from lowest load or unload level to highest load or unload level. Also round up to the next foot and add a 3" safety cushion.

6'	11'	16'	21'
7'	12'	17'	22'
8'	13'	18'	23'
9'	14'	19'	24'
10'	15'	20'	26'

Notes regarding travel dimensions:

The (A) dimension is taken from the finished floor first level to the finished floor second level. **Repeat this procedure for a 3 level application.**

The (B) dimension is taken from the lowest unobstructed point such as the roof joist (shown) to the finished second level floor. Be sure to also consider sprinkler pipes and overhead lights, etc.



Our mast is always tied off at the second or third floor opening as indicated by the letter C. The framed opening must be adequately reinforced at this position. **NOTE: This is for stability reasons only (not structural) as our Storage Lift is self-supporting and does not require any building structural support or special concrete piers.**

3. Platform Capacity: (available up to 40,000lbs.)

Capacity determined by heaviest load, plus load handling equipment.
*Most popular capacity.

1,000 lbs.
*2,000 lbs.

3,000 lbs.
4,000 lbs.

4. Speed/Power Unit:

Standard Rise Speed In Feet Per Minute *(Faster Speeds are Available)*

Motor Specifications:
3.2 HP 230/1/60
3.2 HP 208/230/460/3/60

Capacity lbs.
Feet per minute
Feet per minute

1,000	2,000	3,000	4,000
21	21	21	15
21	21	21	15

Single or three phase power is available as a standard feature, at no additional charge. Either power unit requires a 30 amp fused safety disconnect service, supplied by others.

5. Traffic Pattern:

Determine the best and most efficient loading and unloading traffic pattern for your storage facility.

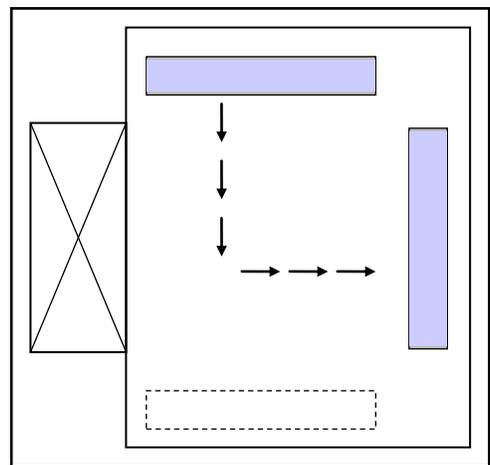
C Pattern: You enter and exit from the same side of the carrier platform, on each level.

Z Pattern: You enter and exit from opposite sides of the carrier platform, on each level.

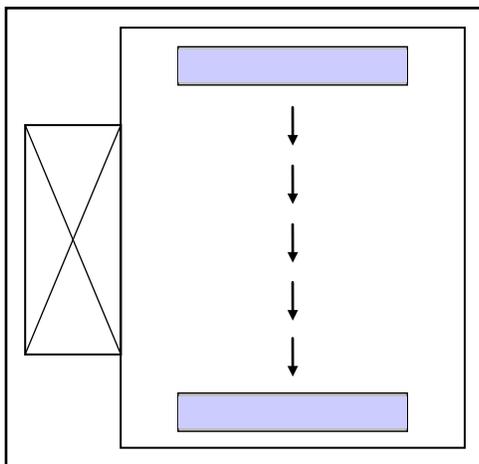
RA Pattern: You enter and exit the carrier platform from a right angle, on each level. Note that with this layout the roll up doors are offset, on each side, of the carrier platform, and are not centered to the carrier platform, as with the C or Z pattern.

Choose Pattern: [] C [] Z [] RA

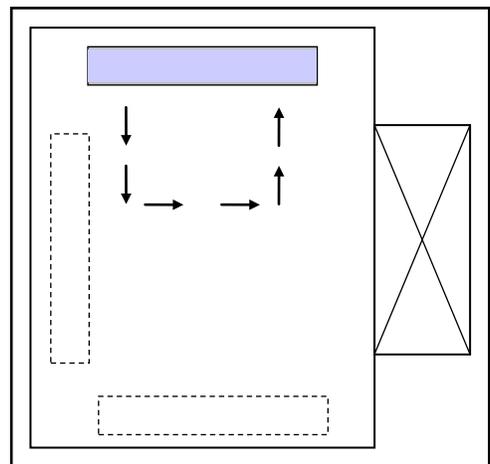
RA Traffic Pattern



Z Traffic Pattern



C Traffic Pattern



NOTES: Add maneuvering space needed for Storage Lift access by other loading or unloading equipment, such as 2 wheel hand truck, 4 wheel platform truck or pallet jack, also swing clearance for hinged entry doors or hinged entry gates. Floor space is determined by carrier/platform size. Please call **AJAY Equipment** for any layout assistance you may need regarding your Storage Lift requirements at: **800-521-AJAY (2529) or Fax us @ 888-521-2529.**

Doors/Gates, Interlocks and Landing Enclosures:

ASME/ANSI B20.1--Requires that "the conveyor shall be guarded to prevent injury from inadvertent physical contact," and "the conveyor housing shall be equipped with doors, gates or an equivalent device at each manual loading and unloading station, interlocked so that they can be opened only when the carrier/platform is stopped at that level and the carrier/platform cannot be moved until they are closed."

Doors/Gates Interlocks And Landing Enclosures--If your existing building or storage unit walls are not surrounding the placement of the VRC Storage Lift, as a then required option, doors/gates and welded safety steel panel landing enclosures are available for each level. Doors/gates may be of single or double configuration.

In order to protect the integrity of the required safety interlock system, the door or gate and its supporting frame must have the structural strength and rigidity to ensure proper alignment of the safety interlock mechanism. For this reason, all Storage Lifts must be equipped with doors or gates and interlocks built in conformance with ASME/ANSI specifications. VRC Storage Lifts must be installed to comply with all ANSI B20.1, ASME, and OSHA codes.

Accessory Equipment:

RAM Stop Assembly with Pressure Switch--For positive carrier/platform stability while loading or unloading in the raised position with heavy-duty use.

Stabilization Chains--For heavy duty use on oversize carrier/platforms. Stabilizes carrier/platform while loading or unloading at the upper level with pallet jacks or other types of portable equipment.

Larger Size Power Units--For faster rise speeds when needed.

Mini Mast--For sites with very limited space to allow for maximum size carrier/platform.

Carrier/Platform-Mounted Safety Rails--48" high standard safety rails with snap chains; safety rails are permanently attached, snap chains, must be used on the open ends of the carrier/platform.

Carrier/Platform-Mounted welded steel side safety panels with snap chains, must be used on open ends of platform.

Loading Approach Ramps--Custom fabricated with a non-skid steel tread plate in grades to meet customer requirements.

Modified Designs--In addition to the items listed here, AJAY can modify designs or add additional items to meet your specific application requirements.

Architectural and Construction Specifications for Hydraulic VRC Storage Lifts:

Mast/Frame--Lower base to be constructed of fully electrically welded structural steel of substantial dimension maximum safety stops to prevent carrier/platform over-travel.

Carrier/Platform--Construction of fully electrically welded structural steel of substantial dimension to accommodate rated load. Frame to be one-quarter inch (1/4") wall steel tubing and reinforced with steel cross members. Carrier/platform material is smooth, hot rolled steel plate. Seventy-two inch (72") high back plate of minimum ten (10) gauge smooth hot rolled steel electrically welded to three inch (3") channel and tube frame. Four (4) side deflection rollers (sealed bearing mounted), one on each outside corner of back plate, to resist carrier/platform tilting, should load be off-center. Carrier/platform to travel on four (4) tapered guide wheels, machined for smooth travel, within upright channels. Each roller to have two (2) replaceable bearings and are mounted on a smooth machined steel axle assembly.

Posi-Stop Carrier/Platform Brake--Two (2) complete assemblies, each consisting to accommodate the rated capacity. Base legs to be of capped structural steel tubing having minimum of one-quarter inch (1/4") wall thickness, with four (4) anchor plates for lagging to floor. Upright channels to be of minimum four inch (4") channel (7.25#) welded to angled cross members to form a truss to increase strength and to resist frame twisting. All corners are to be rounded to eliminate sharp edges. Upper frame to match lower frame, having bolted splice point to allow proper alignment and smooth travel of carrier/platform. Two (2) fixed of heat-treated, hardened steel cams mounted on lubricated bearings to prevent freezing. Cams are actuated via torsion springs to prevent carrier/platform free fall should chain slacken or break.

Electro/Hydraulic Power Unit--Standard 3.2 HP power unit features 3450-rpm TENV motor directly coupled to 2.8 gpm hydraulic gear pump. Pump has integral check valve, relief valve, and 24 volt lowering valve built-in. Pump relieves back to tank and not within pump cavity. Motor/pump combination is neatly mounted on a 5-, 10-, or 15- gallon oversize reservoir with removable suction line filter and sight gauge. Entire power unit is prewired and can be bolted within the mast structure or can be removed and used as an external power unit mounted in a separate adjacent equipment room where required. Hydraulic oil is supplied and shipped loose in special containers. Optional 5.0 HP power unit is similar to above but features a 1750-rpm continuous-duty TEFC motor, coupling with guard, and 5.3 gpm hydraulic gear pump. All else is the same as above, except the check valve, relief valve, lowering solenoid, and emergency lowering valve, which are separate items not built-in to the hydraulic pump.

Hydraulic Cylinder--Single-acting design, casting of DOM tubing, inner rod of chrome-plated steel, with adequately spaced rod stabilizing rings and nonmetallic wear ring. Gland coupling shall have bleed port allowing expulsion of air from cylinder and shall be machined to accommodate gland nut. Gland nut to be easily removed for maintenance of packing. Gland nut shall have external threads with internal sealing and wiping rings. Design of cylinder shall allow easy removal of rod by removal of gland nut, without damage to cylinder. Chain anchor bolts shall have two (2) lock nuts and a lock pin. Chain pressure shall be balanced with separate chain rollers having two (2) sealed bearings each by means of an equalizing head plate. Roller chain shall have a minimum safety factor of at least four to one (4:1). Adjustable flow control at base of cylinder to facilitate control of lowering speed. Hydraulic velocity safety fuse valves are included.

Carrier/Platform Mounted Paneled Enclosure--Paneled enclosure on the carrier/platform will be constructed from F.R.P., (fiberglass reinforced panels) almond in color, to the interior side. The F.R.P. is sandwiched with one layer of polystyrene foam and two layers of high-density hardboard, which is laminated with 4 mil almond vinyl to the exterior side. Panels and door openings are finished framed in heavy gauge anodized aluminum. **An AJAY Equipment VRC standard feature since 1992.** Roll up entry doors will be 48" wide x 84" high and color coordinated with your doors.

Standard Electrical/Control Specifications--Primary voltage: (Specify) single phase, 230/1/60, or three phase 208/230/460/3/60. Control voltage: 24/1/60. Motor starter/transformer combination in NEMA 1 enclosure is included and is part of the removable power unit assembly. All wiring is done to National Electric Codes (NEC) standards. All 24 volt controls (push buttons, limit switches, 4-way slide bolt safety solenoid interlocks, etc.) are included as standard, but various layout options are available to meet your application requirements.

Electrical/Controls Features--Standard controls are NEMA 12 Exterior mount, three or four button, minimum-maintained contact (automatic) call/send push buttons with red emergency push-pull style stop button. Mounting must not be within reach of carrier/platform per ANSI B20.1. Main control panel is a NEMA 1 interior mount enclosure and includes motor starter, control transformer, relay logic, heaters, terminal strip and fuse block, all factory wired in accordance with NEC. Upper and lower level NEMA 12 limit switches mounted on mast, with adjustable strikers, in unistrut, for a wide range of adjustment. Limit switches will be wired to junction box on frame that will then be wired in conduit to main junction box at base of lift at time of installation.

Factory Tested--Each hydraulic VRC model to be manufactured, assembled and fully tested under full design load capacity. Each VRC to be furnished by the manufacturer with a complete, detailed, operation-parts manual.

Mechanical Options--Ram Stop Assembly with Pressure Switch, an adjustable structure that allows the piston ram to deadhead against it at the proper level and system pressure is to be maintained.

Safety Features--Three (3) maximum travel safety stops to limit carrier/platform travel, two (2) lubricated, spring-loaded 1 1/2" wide Posi-Stop carrier/platform brake devices; rounded corners; overload safety relief valves; adjustable down-speed control; check valve; chain adjusters with lock pins; velocity safety fuse valve. **Indicator light system, automatically checks, and then provides a visual light indicating that the entry doors, roll-up-doors, 4-way slide bolt interlocks are all closed and latched, before the VRC Storage Lift will operate.**

In the interest of continuous product improvement, research and safety, all specifications contained herein are proprietary and are subject to change without any prior notice 8-17-07.

For further product information about our Storage Lifts, or design layout help for your new or existing storage facility, please contact us at the following:

AJAY EQUIPMENT CORPORATION
800-521-AJAY(2529) Fax. 888-521-2529

Send all inquiries to: 13863 Redwood Ave. Chino, California 91710

Email: sales@ajaystoragelifts.com

www.ajaystoragelifts.com

Serving the Mini/Self Storage Industry Since 1983

AJAY QUICK LIFT FACTS

During the past twenty seven years AJAY Equipment Corporation has sold to the Storage Industry nearly 1,000 Storage Lifts in North & Central America & Caribbean Islands. **We are the largest Storage Lift dealer anywhere that works exclusively for the Mini/Self Storage Industry.** The owner, Randy Vander Hill, has been involved in Hydraulic Vertical Reciprocating Conveyors and Material Handling Equipment sales, installations and service since 1971. The Company was one of the first in its field to cater primarily to the self-storage facilities. AJAY's custom-made Storage Lifts are intended for safe, floor-to-floor transport of a storage customer's belongings and are an economical alternative to installing elevators in two and three level self-storage facilities. They are installed in new, existing and conversion self-storage projects. Our company prides itself in 100% turnkey installation work with its own experienced personnel. Companies of *all sizes* such as Extra Space Storage, Security Public Storage, A-American Self Storage, Caster Properties Inc., Public Storage and 5-A-A-A-A-A Rent-A-Space are just a few of the firms that contract with AJAY Equipment for its Storage Lift needs. For twenty five years now this company stands behind its work and takes pride in the products and services it offers, a quality which successfully leads to customer satisfaction and continued repeat business year after year. So before you decide on your next purchase of vertical conveyors, go with the industry leader, one that has legitimate references, experience, honesty and integrity. These are just some of the many reasons why we feel at AJAY Equipment Corporation.....

"There Is No Equal."®

Years in Business:	29
VRC Storage Lift Installations:	Thousands in North & Central America & Caribbean Islands
True Truss Design All Welded Mast Tower:	Yes
Warranty Mast:	10 years-the best warranty in the VRC industry since 1985
Warranty:	2 years on parts and labor
Lifting Capacities Available:	*1,000 to 4,000 lbs.
Platform Sizes Available:	*30" x 30" up to 6' x 9'
Car Enclosure Height:	7' to 9'
Standard Lifting Speed:	**21 feet per minute-Faster rise speeds are available
Ram Size:, Lifting Chain:	Up to 3", Dual chain up to #80
Diamond Shield Car Enclosure:	Available (Since 2006)
Automatic Power-Roll-Door:	Available (Since 2004)
4-Way Coated Steel Slide-Bolt Interlock System:	Included (Since 2003)
Entry Door - Gate Check Light Indicator System:	Included (Since 1995)
FRP Carrier Cab Mounted Enclosure:	Included (Since 1992)
Automatic Roof Mounted carrier Car Light:	Included (Since 2004)
Safe 24 Volt Control Voltage:	Included (Since 1985)
4-Way Stainless Next Generation Interlock System:	Included (Since 2003)
Total Controller with LED Lights and Controls:	Available (Since 2007)

AJAY Equipment Corporation has created, designed, developed and built numerous products through its many years of vertical reciprocating conveyor sales, service and installations. These items include; Automatic Power-Roll-Door, Diamond Shield Carrier Car Enclosure, Automatic Roof-Mounted Carrier Car Light, 4-Way Slide-Bolt Door-Gate Interlock and our Entry Door-Gate Check Light Indicator System that works in unison with our 4-Way Stainless Steel Slide-Bolt Interlocks. Everyone at AJAY takes great pride installing innovative, up to date products for our customers, despite the fact that some other lift companies may continue to copy our ideas and its designs. We at AJAY Equipment further tribute that to our creative success.

***Over 90%** of our Storage Lift sales have been with our 2,000 lb. capacity Storage Lift with either a 6' x 7' or 6' x 8' platform! We do offer other types of hydraulic lifting equipment with capacities up to 40,000 lbs.

****We offer faster rise speeds;** however, it will normally take your customers 20-35 seconds to walk up or down the average flight of stairs. With 10' of travel at 21 feet per minute this would take about 28 seconds.

Our manufacturer, with a 130,000 square foot facility, is one of the oldest and largest mechanical/hydraulic lift equipment manufacturers in the United States! In business 110 years, and they have the experience and knowledge to safely, efficiently and effectively build hydraulic Vertical Reciprocating conveyors (VRC) lifts. References are available upon request.