

## Autoquip's Freightlite® Optimizes Inventory, Handling, and Storage Efficiencies.

The industry standard in vertical lifts, Autoquip's Freightlite® vertical reciprocating conveyors (VRCs) supports the lift carriage and load from beneath throughout the vertical travel of the lift. Freightlite lifts travel up to 183 inches with capacities to 3,000 pounds. Hydraulic VRCs are often used for material transfer between landings, mezzanine access, and conveyor systems, which improves use of vertical building space, enhances stability and safety during load transfer, and increase manufacturing efficiency. Freightlite's standard maintenance-free high capacity rollers, automatic re-pressurization and leveling system, and free-fall arrest velocity fuses make it the most reliable, durable, and safe VRC material lift available anywhere. Additionally, every model material lift leaves the factory completely pre-assembled, which reduces setup costs and time. As with all Autoquip VRC lifts, the Freightlite® offers the customer flexibility to select any number of standard options or to specify one or more custom engineered features to fit a specific application. Autoquip has designed and manufactured the Freightlite® Brand of vertical reciprocating conveyors in America's heartland since 1991. Freightlite® VCRs are engineered to the highest standards of safety and reliability.



## Features and Benefits

- High capacity needle bearing rollers produce smooth, reliable carriage movement.
- High impact rubber carriage stops absorb the shock and noise of the carriage as it stops at the upper landing.
- All hydraulic lifting rams naturally self-align to minimize side loading and wear on the bearings and seals.
- Lifting ram stabilizer arms eliminate ram deflection and side loading of the ram seals, extending the life of the rams and seals.
- Minimum ¼ inch thick steel reinforced platform minimizes deck deflection, maximizes load stability, and extends life of the platform deck.
- Structural steel guide beams ensure consistent, reliable tracking of carriage rollers and extends the life of the beams
- Chrome plating improves durability of the rods and extends the life of the cylinders and the seals.
- Maintenance-free carriage rollers require no lubrication
- One-piece structural steel maintenance device safely supports the lift carriage during inspection and routine maintenance.
- Sturdy, semi-transparent polyurethane oil reservoir provides an easily visible method of checking fluid levels and eliminates oil contamination due to rust.
- Double wire braided Parker hydraulic hoses resist wear, abrasion, and leaks
- Autoquip offers a 1-year warranty on all parts and a 5-year warranty on lift structure as a promise that you've purchased the industry's most reliable VRC.
- Each hydraulic VRC ships fully assembled, including chains and cables.
- Upper landing carriage stops are easily adjustable over a 3-inch stopping distance.
- Freightlite carriage requires no overhead structure and enables an unlimited load height.
- Cantilevered design permits 3-way carriage loading.
- Automatic re-pressurization of the hydraulic system keeps the carriage level with the upper landing, which is critical when the lift is idle for long periods of time.
- Physical stops at the upper landing prevent the carriage from moving during loading and unloading of the lift.
- Standard-issue shaft way barrier bar system improves personnel safety when carriage leaves the upper landing.
- Interlocked landing gates automatically lock once the vertical lift carriage leaves a landing and cannot be opened until the lift carriage returns to that landing.
- Gate status switches prevent lift operation while any gate is open.
- Hydraulic velocity fuses completely stop lifts in the unlikely event of uncontrolled descent due to sudden hose rupture.
- Minimum 3:1 structural factor of safety makes these lifts the most structurally sound lift in the industry.
- Compliance with recognized standards:
  - ASME B20.1 - Safety Requirements for Conveyors and Related Equipment
  - VRC Application Guidelines - as referenced by ASME B20.1

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- NFPA 70 - National Electric Code
  - ASTM-A36 - Structural Steel Standard
  - ANSI Z535 - Safety Labeling Requirements
  - AWS D.1 - Welding Standards
  - Applicable portions of OSHA 29CFR1910 - General workplace safety

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Models	Travel (inches)	Capacity (lbs#)	Minimum Platform Width (inches)	Minimum Platform Length (inches)	Maximum Platform Width (inches)	Maximum Platform Length (inches)	Motor Size (hp)	Number of Cylinders	Standard Hydraulic Power Unit	Raising and Lowering Speed Loaded (fpm)	Travel (feet)
FLT-15	183	1500	36	36	72	72	5	1	REMOTE	15	15ft-3in
FLT-30	183	3000	36	36	72	72	5	1	REMOTE	15	15ft-3in

To find more information about Autoquip Products please go to our website [www.autoquip.com](http://www.autoquip.com) To contact Autoquip email [sales@autoquip.com](mailto:sales@autoquip.com) or call toll free 877-360-6777. Copywrite Autoquip Corporation. All rights reserved.

## Options

### **Carriage**

Larger Platform Sizes (refer to model specifications for minimum-maximum allowable sizes)  
Handrails (for non-operating sides)  
48" High Expanded Metal or Sheet Metal Side Guards (non-operating sides with snap chains across operating ends)  
84" High Expanded Metal or Sheet Metal Side Guards (non-operating sides with snap chains across operating ends)  
Four-way Tread Plate Approach Ramp  
Carriage Load Height -- addition or reduction from 7' standard (2-post models)  
Stainless Steel Skin -- bolted or welded to carbon steel platform  
Stainless Steel Deck -- 304 SS 1/4" sheet over standard carbon steel deck  
Conveyor -- gravity or powered, supplied and mounted  
Four-Way Tread Plate  
Expanded Metal Carriage Roof Enclosure  
Handrail Kickplate -- larger than 4" standard  
Non Slip -- black silica sand finish

### **Power Unit Options**

Remote Power Units  
Wall Mounting Brackets  
Cover for Remote Power Unit  
Water Glycol -- non-flammable oil with viton seals in lift cylinders  
Food Grade Oil  
Biodegradable Oil  
Dipstick  
Oil Immersion Heater (remote steel tank power units)  
Sight Gauge (remote steel tank power units)  
Power Unit Heater  
Drip Pan  
Hydraulic Oil (USDA approved)  
Fire Proof Hydraulic System -- phosphate-ester oil, valving, seals and hosing  
No Power Unit & No Controls

### **Electrical Options**

Key Operated On/Off Security Lockout Switch (NEMA-12)  
Extra Push Button Station -- 3 Button Up/Down, E-Stop (NEMA 4)  
Key Operated Up/Down Switch (NEMA-12)  
Audible Signal -- shipped loose  
Audible Signal with Volume Adjust -- shipped loose  
Prewired Audible Signal -- standard or adjustable (mounted in main control enclosure)  
Flashing Red Light -- shipped loose  
No Controls  
Keylock  
Lift Present Light  
Limit Switch -- shipped loose for field mounting  
NEMA 12 Disconnect -- mounted in control enclosure

Drop Cord Assembly  
Audible Signal or Light (per station)  
Car Arrival Buzzer (per station)

## **Gates & Enclosures**

Single Swing Gates  
Biparting Swing Gates  
Single Panel Vertical Acting Gates  
Bi Panel Vertical Acting Gates  
Horizontal Sliding Gates  
Back Stop Assembly Kits  
Panels (standard 96" high)  
Interlocks

## **Mast**

Mast Beams (factory spliced)

## **Paint**

Standard Autoquip Colors  
Special Paint Options  
Epoxy Paint -- customer's color can be matched with paint chip/RAL paint #, or with an Autoquip equivalent paint (2 part epoxy, sand blasting of unit recommended)  
Steel-it -- stainless steel filled urethane primer and finish coating (MCU type IV for incidental food contact)  
Primer Only  
Tile Clad Epoxy -- sand blasting of unit required