



The Nova VRC is a free-standing Vertical Reciprocating Conveyor that can be positioned next to a terminal building, a passenger boarding bridge walkway or the bridge rotunda. The Nova VRC easily handles baggage carts or individual wheel chairs, baby strollers, or individual baggage. The lift car travels from tarmac to bridge in just 15 seconds, 3 times as fast as the nearest competitive VRC.

Standard Features

- ▶ The rated load capacity for the Nova VRC is 3,000 pounds. What this means is; if you can get it in the car, it will lift it and still maintain a safety redundancy of over 4 to 1.
- ▶ The lift car can never become jammed owing to off-center loads. The lift car travels vertically on precision axial- and radial-load, heavy-duty rolling element bearing on rails rated for up to 4.6 tons of force. It travels at the rate of 40 feet per minute, from tarmac to bridge in 15 seconds, on average.
- ▶ There is a mere ¼" transition from the tarmac into the car. No other unit currently available offers this versatility.
- ▶ The lift car is raised & lowered on a Georgia Hydraulic custom-made cylinder with an 8.5' stroke and a 2" bore.
- ▶ Best of all... **All the lifting components, sensors and pump are located at ground level** and are easily accessed by merely removing an access panel. You never need to figure out how to hang from the ceiling to work on a component.
- ▶ The Nova VRC has another unique feature in its construction; the side wall of the lift shaft on the same side as the upper opening is sheeted in a continuous sheet of aluminum. If a handbag or other object were to shift during ascent/descent, the only place for it to go is against the smooth-surfaced shaft wall. There is no obstacle for it to snag on and damage the item or jam the lift car.



Meets or exceeds all SAE and ANSI specifications for hydraulic VRCs, and meets or exceeds all OSHA requirements.

(continued)



- ▶ Each unit is custom built to meet the exact height requirement. The standard Nova VRC Lift car can traverse a distance of up to 20 feet. Units extending to a second story are also available.
- ▶ The lower entrance door is hydraulically actuated. This prevents the door from whipping open and springing the door hinges in wind gusts and provides a foolproof manner to keep operators from bypassing switches and opening the door even if the lift car is not present. The door hinges are offset 3 inches from the edge of the hinged side of the door to allow for an additional side clearance when pushing in baggage carts, or wheelchairs.
- ▶ The NOVA VRC frame is all steel, powder-coated construction. Standard exterior panels are Galvalume corrugated panels. A variety of colors and finishes are available, including smooth sides if desired.
- ▶ The included baggage cart is a heavily constructed steel framed, powder coated, two shelved work horse. It has heavy duty 8" diameter wheels rated at 2500 pound capacity each. These wheels have been chosen to stand up to the rigorous service required on the tarmac. We are so confident of the strength and longevity of the baggage cart that we offer a two year unconditional warranty covering repair or replacement of any part for any reason except for collision. There are two different parking brake options available to keep the cart from being wind driven on the tarmac. The cart is 7 feet long by 3 feet wide and has two levels to stack baggage with a roof over the shelves. Each end of the cart is enclosed with 11 gage steel expanded metal.

Safety/Logic Features

- ▶ The Hydraulic lift cylinder has a velocity valve at the lower port. If a hose breaks, or a valve fails, the velocity valve will engage and stop the cylinder in its decent. A manual by-pass valve allows for lowering the cylinder and lift car.
- ▶ The entire electrical system is managed by a 24 volt DC Programmable Logic Controller. The system has a 24 vdc battery backup. Even in the event of a power failure, the NOVA VRC will operate for up to 50 complete cycles.
- ▶ The system employs an emergency shut off passive proximity switch for over running the upper limit.
- ▶ Mechanical redundancies of at least 4 to 1 are engineered into the lift car the frame and the lifting systems.
- ▶ There is no wiring on the lift car itself. There are no cable ways to foul with the lifting and lowering of the car. This is a huge advantage for making this lift an extremely low maintenance VRC.
- ▶ All hydraulic hoses are rated for 6,000 psi and are shielded from ultra violet. None of the hoses are required to move with the action of the lift car.
- ▶ An emergency stop button is located on the side the lower control panel.

Specifications

- ▶ The NSL is approximately 22' tall, 4' wide and 8' long.
- ▶ As many as 4 units can be shipped on a single flat bed trailer at one time.
- ▶ POWER Requirements: 110 volt A/C, single phase, maximum current draw 10 amps.