



Carlson Systems Engineering

contact www.mh-partners.com for sales help
Phone: 402-861-6180 Fax: 402-861-6199

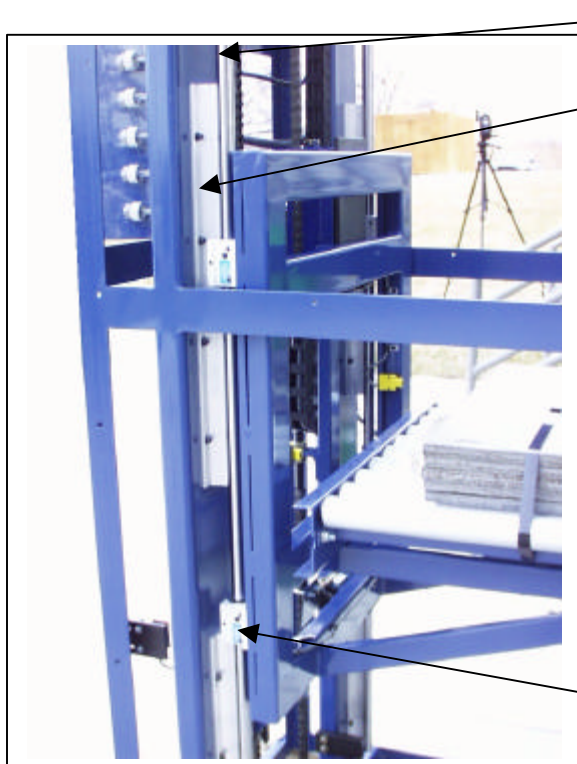
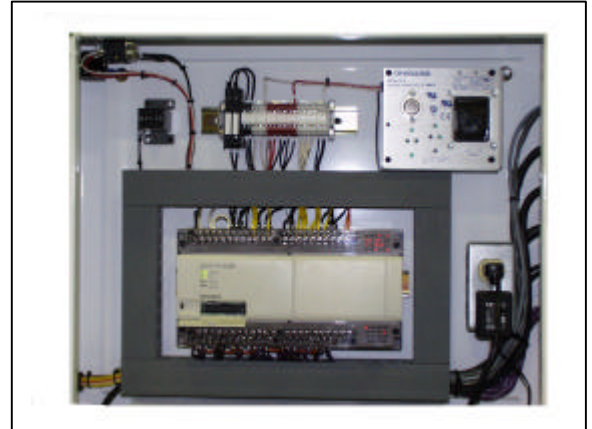


Carlson System Engineering Improves the Verticon by Carlson

Carlson Systems Engineering continues to manufacture the Verticon by Carlson vertical conveyor and improve the quality of the lift. Carlson Engineering has made significant improvements to the Verticon by Carlson vertical conveyor and the following paragraphs discuss a couple of the improvements.

PLC Based Control Package To Be Included

One improvement that has been implemented is that each unit will come with a complete control package to operate the vertical lift. A PLC based control package will be supplied with each reciprocating conveyor. One item that will be in each control package is a Variable Frequency Drive. Carlson Engineering will supply the ramp up and ramp down sensors that will work in conjunction with the VFD. Having these sensors will help to ease the abrupt starting and stopping of the lifting carriage. A major advantage of using the VFD is it will prolong the life of the components that are used on the vertical lift. The main control panel will also feature items such as a main power switch that can be set to run the lift in manual or auto mode. On the face of the control panel we will have jog up & jog down push buttons along with a mushroom head E-stop button. With our control package we include a jam detect light/service indicator and a main power light. Motor starters for the main drive motor and bed motor will be included with all control packages.



Linear Rail

Support Guide

Linear Rail System Improves Design

An area that we are also making a change is using linear rail for the carriage to slide up and down on instead of the carriage rolling on the steel support tubes with cam followers. **Support guides** are attached to the structural guide tube. This new design allows the **linear rail** to be affixed to the support guides the entire length of the carriage travel. **Four open pillow blocks** are positioned on the lifting carriage and they attach to the linear rail. Once the carriage is attached to the linear rail it will glide smoothly from top to bottom. Using the linear rail will prevent “flaking” from the guide tubes. The carriage will not be in physical contact with the structural guiding tubes.

Open Pillow Block.

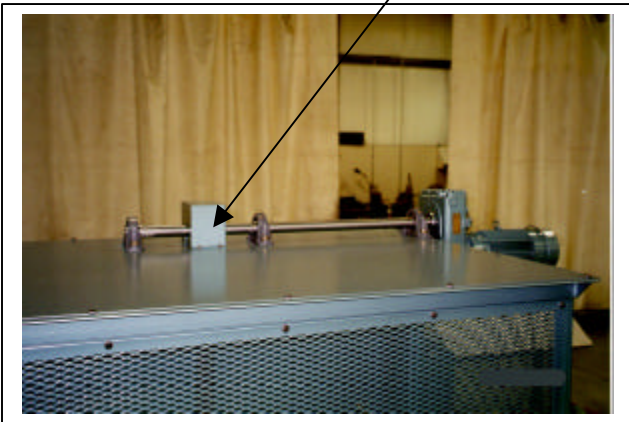
Guarding Protects Vertical Conveyor

Guarding of the *Verticon by Carlson* vertical conveyor is an important area. Carlson Engineering is improving the way our guarding is designed for the vertical lifts. A big improvement is in the way the edges of the guarding are protected. In the past edges of expanded metal and sheet metal were covered with a thin plastic overlay. The sharp edges of the expanded metal had a tendency to poke through this plastic material. For that very reason we will not use plastic to protect the edges. The edges of the expanded metal will now be covered with a piece of **flat metal**. The flat material is welded to the expanded metal guarding and covers all sharp points on the expanded metal. Holes are placed into the framework where the guarding will be attached. Each hole is threaded and will match the holes that are on the guarding piece for that section. We will use 5/16" button head screws to attach the guarding to the frame of the vertical conveyor. One option that we do offer is placing a **sheet metal cover** on top of the vertical conveyor. We can place a protective **guard over the sprocket assembly**. On units that are under 96" tall this is a standard item.



Flat Metal Edging Protects Expanded Metal

Sheet Metal Top With Guarded Sprocket Assembly



One way for us to continue making the correct improvements to our vertical conveyors is by input from the existing dealer network. You are the ones that see first hand the improvements needed to make *Verticon by Carlson* the best vertical conveyor in today's market place. The distributors are the customers. We want to build a better lift using your ideas and past experiences for reference. Please call, fax or e-mail me with any suggestions you may have in order to help improve the *Verticon by Carlson* vertical conveyors.

With the support that *Verticon by Carlson* receives from the staff at Carlson Engineering you will be impressed with the equipment that is designed and sent to you. We are able to provide you with a complete line of vertical conveyors. Our goal continues to be to provide you with the machines that will fit your specific application. This is what will continue to set us apart from our competition.

Sincerely,
Carlson Systems Engineering

Bill Porter
Verticon by Carlson Sales Manager