

## Carlson Systems Engineering Offers Heavy-Duty Pallet Lifts

Carlson Systems Engineering continues to improve and update the vertical conveyors offered by Verticon by Carlson. One style of vertical conveyor we manufacture is the pallet lift. Our basic pallet lift is called the **Mezza-LIFT**. (See figure 1) A number of these vertical conveyors have been used in combination with mezzanine systems. The **Mezza-LIFT** is ideal for lifting and lowering heavy pallet loads to and from your mezzanine or upper floors. The platform is raised and lowered by an electric chain hoist. Sensors detect the lift platform and position it at your desired elevation. A key feature of the **Mezza-LIFT** is it's all-electric operation with no hydraulic components being used. A benefit of this is once the platform is in position it will stay in position. You will not see the downward drift that is associated with hydraulics. There are no hydraulic hoses to rupture and no hazardous material to contain in the event a hose would leak or rupture.

Figure 1



**Mezza-LIFT**

Figure 2

### FREE-FALL SAFETY BRAKE



With each **Mezza-LIFT** that is sold we include the electrical controls needed to operate the unit. Our control package consists of the main power panel that houses the components necessary to operate the vertical lift and the push button stations needed to activate the lifting and lowering of the vertical lift. The main power panel is designed so it will mount remotely in the building with the vertical lift. The push button stations for each floor include an up, down, and e-stop button for a two position vertical lift. Additional buttons or stations can be added as an option if you require more floor levels. Freestanding guarding is included to ensure the safety of the people

who work with and around the **Mezza-LIFT**. Guarding is provided on all open sides of the vertical conveyor and is designed to keep personnel from entering the lift. Along with each level of guarding a gate section is included. The gate sections are bi-parting and swing outward. Gate sections are locked with electro-mechanical interlocks that are attached to the gates. When the vertical conveyor is in motion the bi-parting gates cannot be opened. Only the platform present gate can be opened. The unit will not operate unless all gates are shut and locked. Incorporated with each vertical conveyor is a **free-fall safety brake assembly** as shown in **figure 2**. The brake is designed to operate in the unlikely event that the chain would break or become slack. A limit switch is used in conjunction with the free-fall safety brake assembly to turn off the vertical lift if the chain becomes slack or breaks.