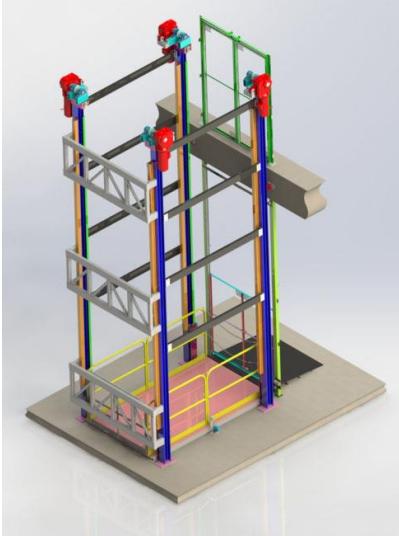


VRC 4-Post Mechanical Freight Lift Provides a Better Way to Move Home Goods for IKEA

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Features/Benefits Provided:

- High Capacity
- High Travel
- Custom built to fit facility
- Shaft Encoders

The Challenge:

The storage needs were changing for our customer IKEA, the world's largest retailer of home furnishing products. As the inventory demands increased for two California store locations, it was becoming essential to improve inventory space. The challenge however, was to work within the existing facility space which was already limited on floor space. Therefore, the customer had to utilize their overhead space, working around ceiling obstructions to add custom mezzanines for storing their inventory. The next challenge was adding a lifting solution to move the inventory to and from the mezzanine level.

The Autoquip Solution

Because of the application requirements of moving heavy loads up to 6,600 lbs., travel up to 214 inches, and repeatable stopping and holding of the carriage for loading and unloading, we knew our 4 Post Mechanical Freight Lift would be the ideal lifting solution for IKEA. However, we had to review the existing design to look for a way to relocate the drive assembly due to the customer's overhead clearance issue. This involved moving the drive assembly which normally sits atop of the 4-Post Mast to installing a nested drive assembly to each mast. The design utilizes shaft encoders for synchronizing each

drive assembly to determine the rate of speed and positioning. HMI monitoring makes sure the lift is operating and running smoothly.

Solution Benefits

With our extensive design library and engineering experience, we were able to make modifications to an existing design in order to meet the customer's application requirements. The customer is now in position to have inventory on hand, easily access it, and move it quickly from the mezzanine level to ground, and into the store.



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