



Electrolift Rail Car A/C Maintenance Hoist

Features and Benefits

Low Headroom

2 Independent Hoists in a common frame

Able to negotiate 6' radius

Radio controls

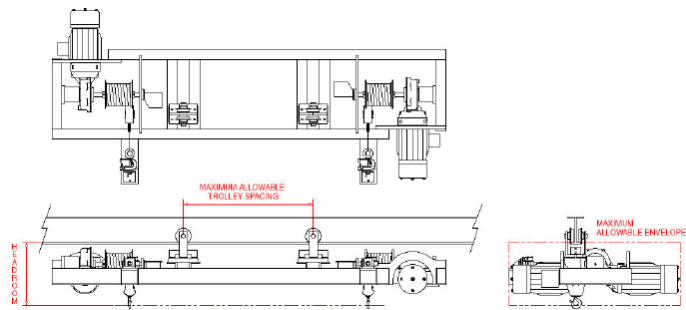
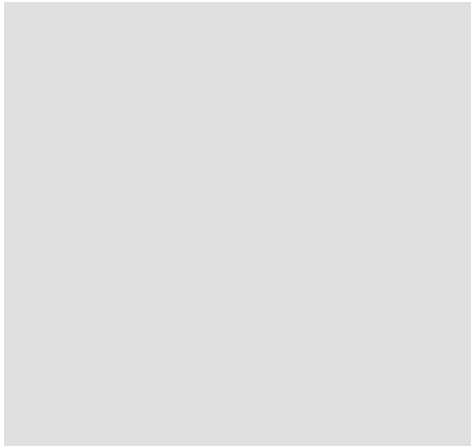
Rugged Worm-Drive Design

Industry Group: Hoist Manufacturers Institute (HMI)



The hoist shown above is used in a railroad car maintenance application. The customer required a hoist that can remove and replace the air conditioner unit from the top of the railcar. The unit must be removed at an angle, requiring independent hoist movement. One end of the unit is raised, moved forward slightly, then leveled and completely removed from the car. This was accomplished by providing two independently controlled hoists in a common frame. One radio control unit controls two hoists with a selector switch for either hoist, or combined hoist operation.

As shown in the drawing below, there were also dimensional limitations for this system because the hoist unit would pass through track switches. The trolleys had to be located to be able to negotiate a radius while being pulled by a tractor. Also adding to the complexity of this project, there was a limited amount of headroom available due to the height of the rail car, and low ceiling of the facility.



Electrolift was able to meet all specified requirements by supplying a custom designed hoist for this application.



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