

Specialized Scissors Lift For Refractory Installation

The Challenge:

One of the premier producers of the highest quality clean steel ingots needed a specialized piece of equipment for relining the interior of their molten furnace. The task to replace refractory bricks to form the new lining structure is very labor intensive. The goals are to make this process safer and more efficient for their workers. They not only need the equipment to travel the distance of the furnace wall but also an area in which to place the brick on for ergonomic work height.



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Growth & Impact



Ergonomic Work
Height



Dual Purpose
Application



Enhance
productivity and
safety

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The Solution:

Autoquip has designed many lifts for the steel and iron industry. For this project, we designed a dual stacking scissors lift that would provide the 2-in-1 functionality the customer requires. The primary lift is used for elevating the workers safely to reach the desired height within the interior furnace is a Tork 2 with 72 inches of travel. A Series 35 is mounted and bolted to top of the main lift with a 38x38 smooth platform surface for placing the bricks on top. The workers can adjust the secondary lift to the ergonomic height required, so they can perform their tasks without strain. When the lift is not in use, we added lifting lugs so the lift can be taken out of the furnace structure, and with the T-Handle moved to storage until the next refractory process is due.



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The Benefits:

Autoquip has a rich history serving the iron and steel industry with proven ladle lifts for the refractory relining of steel furnaces. Through our unique custom design capabilities, the customer received a dual-purpose ladle lift specific to their operations that will enhance productivity and safety.

