

Sidewalk Lift for University Basement Access



The Challenge

Oklahoma State University was renovating an older dormitory and converting the basement space into a maintenance & furniture storage area. The lift had to meet all current, applicable equipment safety and building code requirements and also needed to accommodate the site restrictions given by the architect: 1) must fit the existing sidewalk opening, 2) must activate the existing “bilco” style sidewalk doors, and 3) must prevent inadvertent contact with, or operation by, the general public.

The Autoquip Solution

Upon review of the application, the Autoquip technical salesperson narrowed the potential lifting solutions down to three possibilities: 1) vertical ram lift, 2) double pantograph lift, and 3) double-high/stacked lift. Due to budget constraints it prevented further excavation required for the ram lift, and because of the small platform size required to fit inside the existing pit area. Autoquip recommended and developed double high-stacked scissor lift design with a custom platform. This solution provided the highest travel with the smallest footprint. The solution also included the customer-requested security features.

Autoquip manufactured a 96” high security enclosure around the lift and provided interlocked swing doors at both upper and lower levels, which could not be opened unless the lift was stopped at that level. Finally, a key-operated pushbutton station was installed that prevented operation of the lift by the general public and other unauthorized users. The customer is completely satisfied with a state-of-the-art material lift that could be installed within an existing sidewalk and shaft opening. All security measures have proven successful, and



material is being transported between ground level and basement level safely and regularly.

Lift Specifications for this Unique Application:

Model: 48S25EXW-DH

Capacity: 2,000 lbs.

Travel: 94"

Platform: 48" x 64"

Actuation: Hydraulic

The Solution Benefits

Autoquip was uniquely qualified to provide this customer with a safe, effective, and affordable material lift solution due to a broad product offering that includes stacked scissor designs, customized platform attachments, and multiple security enclosure/gate configurations.