

TIRE MOUNTING LIFT STATION NO: 807



Tandem Scissor Lifts with Drive off Ramps

THE APPLICATION: Mounting Tires onto Heavy Duty Tractors

THE PRODUCT: 75,000 lb Capacity Hydraulic Tandem Scissor Lift and Two 30,000 lb Capacity Pneumatic Tandem Scissor Lifts with Drive off Ramps

THE INDUSTRY: Agricultural Equipment and Machinery Manufacturing

THE NEED: Within an existing facility, a tractor manufacturer needed to accommodate a new operation utilizing AGVs. They needed a sturdy, heavy duty method for lifting a tractor frame on an AGV without creating any side-to-side wavering as the tires were mounted.

THE SOLUTION: Omni Metalcraft Corp. provided a 23 foot long by 2 1/2 foot wide Hydraulic Tandem Lift with mechanical lifting pads on the far ends with locating pins and two smaller Pneumatic Tandem Ramp Lifts on each side. An AGV unit would drive the tractor frame onto the main tandem lift; the pads would lift the AGV up 3 inches due to the sensitivity of its wheels. The entire lift would then rise for tire installation. The tires were installed overhanging the main tandem lift. Once the tires were mounted, the lift would lower, resting the tires on the two ramp lifts allowing the AGV to drive out from under the tractor. The ramp lifts would lower to the ground allowing the tractor to drive off.



- Hydraulic actuated tandem lift
- Locating pins
- Mechanically raised pads

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