

CUSTOM MECHANICAL CANTILEVERED LIFT FOR AUTOMOTIVE ASSEMBLY LINE

SPECIALTY SOLUTION #68

AUTOMOTIVE

- 3,080 lb. capacity, mechanical actuation, 50" x 81", 14" vertical travel
- Locking system consisting of four air cylinders and locking pins
- Smooth operation (interfaces one operation with another), zero drift



Handling Specialty custom engineered and designed a lift that integrated into an automotive marriage station. This lift was designed for a well-known automotive assembly line integrator, and was ultimately installed into a North American automotive assembly plant.

As the lift lowers, a slide on the lift indexes out 1.5 meters. A shot-pin system then locks the platform top to the base enabling the slide to cantilever and pick up a vehicle axle. The slide indexes in with the load over the center line of the lift thus causing the shot pins to disengage. Rising approximately 10", springs on the lift begin to compress and the axle is fixed into the vehicle.