

# Tower Automotive

## Bastian Designs a Flagship Component Feed System for New Nissan Assembly Line in Smyrna, Tennessee

### Business Challenges:

- Install equipment between shifts so as not to compromise production schedule.
- Implement ergonomic part presentation for the operators in order to minimize injuries and fatigue while maintaining optimum build rate.
- Minimize Fork Truck traffic.

### Key Technologies:

- 140 Southworth Lift Tables and Articulating Lift & Tilt Tables with special Ergonomic Hand Controls.
- 12 Big Joe Walkies for Ergonomic Work-In-Process container transportation without the need for Fork Trucks.
- 10 Heavy Unit Load Container Conveyors and Chain Transfers with Programmable Controllers for Automatic Indexing.
- 2 Special 4,000lb Frame Lifts to lift Truck Frame Beams out of the WIP Containers while reducing back potential injuries.

### Results:

- Bastian's solution reduced fork truck activity, thereby cutting expense, downtime and inefficiency.
- Ergonomic system minimized reaching and repetitive movement while achieving maximum production. Certified by outside ergonomic consultant firm.
- Fabrication, assembly and testing took place off-site to maintain plant production schedules. The equipment actually shipped ahead of schedule to be staged in an off-site warehouse until the new assembly line was completed.

