

DOES YOUR AMR NEED A LIFT?

Herkules Equipment Corporation offers Autonomous Mobile Robot (AMR) integrated equipment, accessories, and design services. Our Vertical Robot Scissor Lift Tables place product precisely where it is needed. Rely on Herkules to design, build, and integrate both the ELTO AMR-Mounted scissor lift tables and floor-mounted EnKon scissor lift tables and accessories.

INTRODUCING THE ELTO™ VERTICAL ROBOT HIGH TRAVEL AMR LIFT

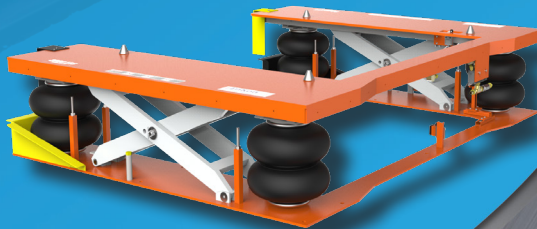
- Patent protected in USA and internationally in other major countries
- Travel up to 3 feet & 5-inch lowered height
- Loads up to 3,000 lbs as standard and higher capacities custom made
- Low maintenance, belt-driven design
- 100% electric powered for clean, green operation
- Repeatable and stable position control
- 12, 24, or 48VDC operating voltage

Say goodbye to hydraulic maintenance and messes - equip your AMR with the all-electric ELTO eLIFT by EnKon. Add flexibility to your AMR fleet to reach multiple product heights... even raised operator platforms!



ENKON U-CELL FLOOR-MOUNTED SCISSOR LIFT TABLES

EnKon U-Cell Floor-Mounted Scissor Lift Tables provide either AMR drive-in or drive-through capability. Once positioned the lifts raise the load off the AMR to the required height to support operator ergonomic positioning and increased efficiencies. These lifts are either 100% electric or pneumatic powered.



ELTO VERTICAL ROBOT™

SCISSOR LIFT TABLES

These 100% electric belt-drive lift tables mount on autonomous mobile robots (AMRs) and place product to support ergonomic positioning and increased operator efficiencies. They are integrated for various lifting height requirements such as raised operator decks and various AMR platform sizes.



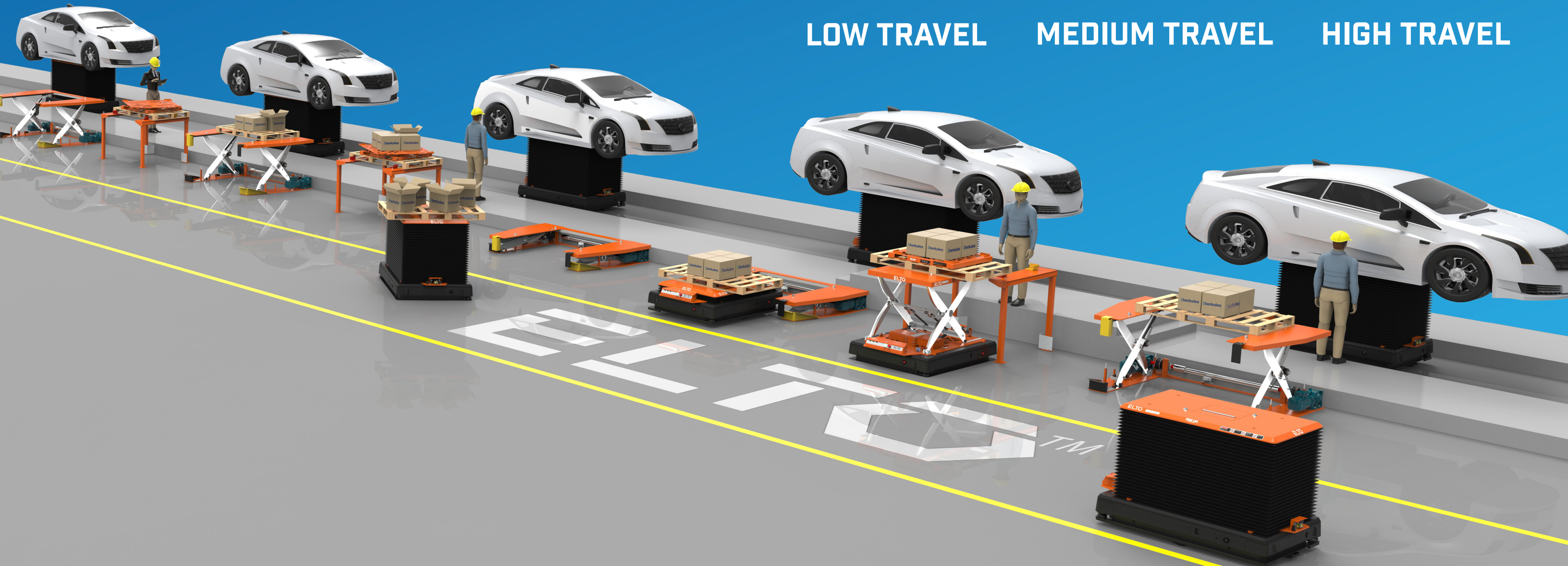
LOW TRAVEL



MEDIUM TRAVEL



HIGH TRAVEL

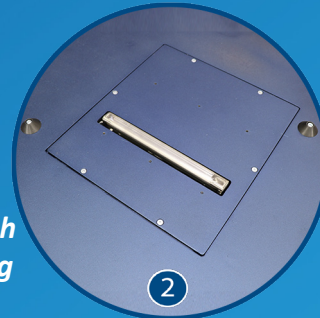


CONTROLS INTEGRATION

Rely on EnKon to design and assemble custom controls packages that integrate lift controls and AMR functional requirements. Upper and lower lift travel mechanical switches are standard. ELTO lifts include centering cones to ensure the payload is centered as well as a pallet present switch. EnKon integration creates all the necessary communication between the onboard PLC and the AMR's fleet manager.



Integrated lift control module.



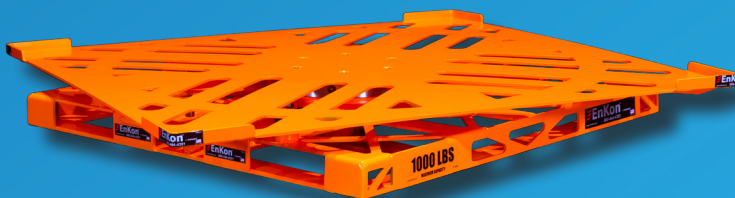
Pallet present switch and load positioning cones.

In addition to standard upper and lower lift travel mechanical switches, laser encoders can be incorporated to accurately measure lift height. This height feedback along with programming of ELTO's onboard PLC allows the lift to go to any height for pick-up and drop-off of product as well as indexing for best operator ergonomic lifting practices. Customer specifications such as infrared handshake protocols and radar safe-to-enter confirmation can also be incorporated into the ELTO lift's onboard PLC for an added layer of safety for operator-AMR interface zones.

HERKULES RALLETS AND PICK & DROP STANDS

Rallet

The combination of Herkules' custom rotate and a carrier plate pallet creates the rallet. It includes depressions on the undercarriage that coincide with centering cones to position the load on the ELTO lift. The rotate offers optional detents as per customer requirements.



Carrier Plate and Pick & Drop Stand

Shown here is an EnKon carrier plate without rotate mounted on pick & drop stand designed as per AMR positioning requirements.

