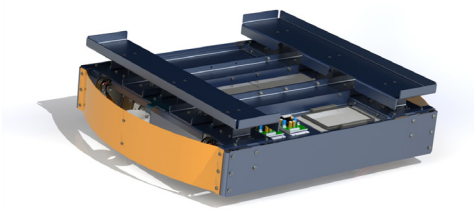
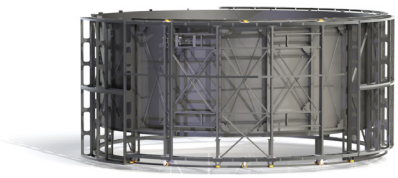
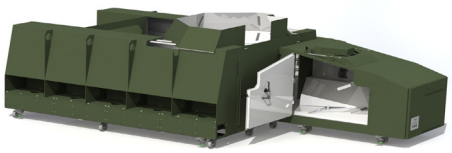
# FROM THE MIND, TO THE MACHINE.

*The Creations of Conceptual Innovations*



*AUTOMATED GUIDED DEVELOPMENT*

- **Developing a custom drive platform with omni-directional maneuverability** to position a 2.5-ton airplane scaffold. What took 16 people to turn and move successfully now only takes 1.
- **Creating a moving display for a boat manufacturer** used in a product reveal at a national boating expo. All facets – including the mechanical design, electrical design, programming, fabrication, testing, and debugging – were handled under one roof.
- **Designing a transmission assembly cart for a major agricultural manufacturer** to increase efficiency on a transmission assembly line. Operators can now drive cart into position and rotate, life or lower the 3,500 lb. transmission housing for proper assembly orientation.

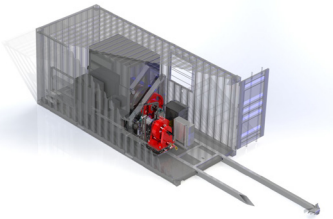




*DRIVING SIMULATOR FOR MILITARY AND COMMERCIAL APPLICATIONS*

- **Constructing a 30 ft. driving simulator that would utilize a full-size car body** to provide a realistic simulation. Special considerations included that the skin panels be constructed out of aluminum and incorporate two curves along the entire 12 ft. length.
- **Building a simulator for training troops on M2 Bradley and M1126 Stryker ICV military transport vehicles.** Custom fabrication allowed the simulator to be configured between the two styles, saving time, space, and money.
- **Designing a visual display simulator for the U.S. military and municipalities as driving simulators of IED (improvised explosive device) removal vehicles.**

*WATER BRAKE DYNAMOMETER TESTING SYSTEM*

- **Manufacturing a mobile dyno testing station for a 350 HP aircraft carrier** with a gearing system that made the low speed high torque trolling motor compatible with the high-speed low torque water brake dyno. All engineering and manufacturing was performed in house.



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