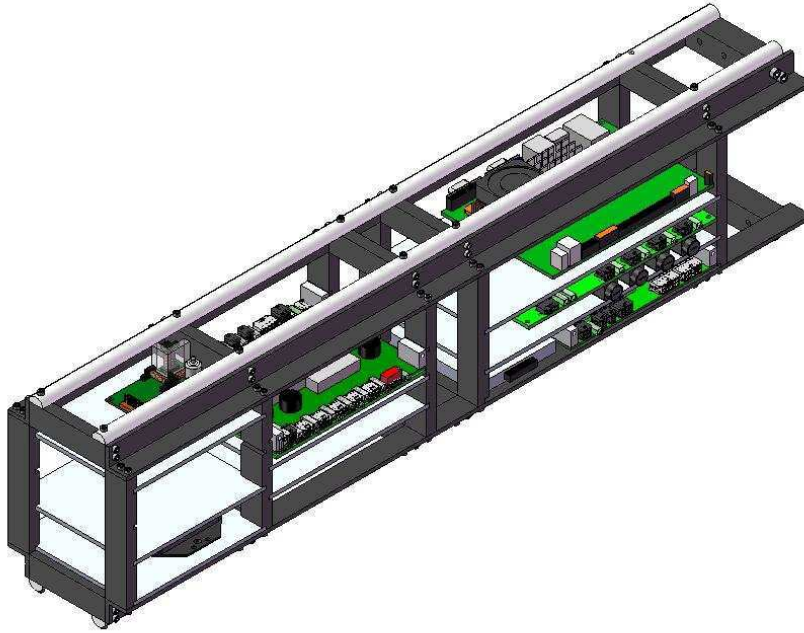


Data Sheet: Rack Structure



The main purpose of the Rack is to allow for safe and easy mounting of electronic components within the upper hull. The design uses a tray system where circuit boards or other pieces of hardware are attached to removable trays, which slide into grooved slots milled into the bulkheads. The design is meant to be easily accessible and expandable for future hardware

Rack Assembly:

Horizontal and Vertical Bulkheads:

- 3/8" x 1" Delrin stock, milled to 3/8" by 3/4"
- 4-40 tapped holes for mounting to L-beams
- 4-40 tapped holes for Acrylic guides
- Milled 1/8" x 1/8" grooves for

L-Beams:

- 3/4" x 3/4" aluminum L-beam stock
- #4 and #8 clearance holes for screws

Mounting blocks

- 8-32 tapped holes for L-beam mounting
- #8 clearance holes for rear end cap

Assembly:

- 5/16" long 8-32 screws
- 5/16" long 4-40 screws

Acrylic guides:

- #4 clearance holes for mounting