

ADVANTAGE



Aurora Mobile Systems Dual Pin Rail Splice

All Aurora High-Density Mobile Storage Systems feature exclusive dual pin splice joints. Rail is the foundation of any mobile storage system and precision alignment at all rail splices is essential for smooth carriage movement.

Aurora rail ends are drilled in two places to accommodate two .25 inch (6 MM) diameter stainless steel pins. The rail ends are mated together with the pins in place to insure perfect piece-to-piece rail alignment and which eliminates the possibility of any movement at the splice in any direction, be it orbital, lateral, or vertical.

In comparison, following are methods of securing rail splice joints that some other manufacturers use.

- **Single pin splice:** While this design is effective in controlling movement both laterally and vertically, it does not keep the rails from twisting and misaligning either during the installation process, or if the floor the mobile storage system is sitting on should settle over time
- **Tongue and groove splice:** This design requires rail ends to be milled with a tongue on one end and a groove on the other. It is effective in controlling lateral and orbital movement, but it does not control vertical movement. One side of the rail splice joint could still raise or settle, causing misalignment and a "speed bump". This design also causes the rails to be directional which could create potential problems when adding on or relocating a system in the future.
- **Butt joint splice:** This design simply consists of flush cut rail ends butting together with no mechanical means for alignment. Over time this is certain to create "speed bumps" and could potentially cause binding of the guidance or anti-tip (if equipped) systems.

Dual pin splice joints combined with Aurora's industry exclusive Parkerized rail finish and low friction concave/convex carriage guidance design ensure a high quality long lasting foundation for your next high-density mobile storage system. **Advantage: Aurora**