



APPLICATION SNAPSHOT

Modular fixturing takes center stage

Challenge

Some parts, like this stage decking, can be almost any size. Welding each one on a dedicated fixture wouldn't make sense. And since welders need access to each corner inside and out, a table isn't the answer either. Maintaining a tight tolerance form corner to corner is a must, and holes in the panels have to align for assembly. Throughput is key, so a robotic cell is the goal, but tack welding on a table first would have to go.

Solution

- U-form system
- Manual rolover
- Custom modular components

Instead of building on a table, the decking frame assembly was moved onto u-forms and proven out on a manual rolover fitted with hybrid custom corner locators, pneumatic clamps and shot pin cylinders to locate side holes.

Result

The part can be rotated for easy access from all angles, and u-forms keep the weld space open. Hybrid Corner locaters slide end to end and u-forms slide side to side to adjust to an infinite number of part sizes. One set of custom Hybrid plates can handle it all, eliminating the need for multiple sets. The fixture can be moved from manual weld right into the robotic cell to reduce downtime. ■

Got a challenge that needs to be solved? We've engineered solutions for hundreds of customers and thousands of applications. Show us your part and let's make it better.

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