

CASE STUDY - Arc Welding Application

Industry: Heavy Industry
Robot: Nachi Presto MV6L AXC
Company: Easom Automation Systems, Inc. - Madison Heights, Michigan
www.easomenq.com

Application Summary

- Robot system welds a variety of large assemblies for heavy equipment manufacturer
- Heavy equipment weldments are large and composed of thick steel sections
- Process requires large-diameter welding wire and high-amperage welding to join the components
- More than 100 parts make up the assembly
- Finished assembly is approximately 19' x 12'
- 2,411" of linear weld is applied to each assembly - the largest parts are loaded by crane with two operators
- The system is a two-station configuration that allows for continuous production
- System will expand in the future to multiple-style assemblies



Application Highlights

- 18-meter-long overhead rail system
- System is 4 meters in heights
- System spans two robotically-controlled weld positioners that has a payload of 15,000 lbs each
- Platform system for servicing robot and weld wire spools