

MWES Positions for Success

SlewPro provides technical expertise and custom parts on tight deadlines to meet manufacturing needs

The key to success in business is to offer quality solutions to existing problems. [Midwest Engineered Systems Inc.](#) (MWES) has spent the last 25 years offering technical and specialized expertise in custom machines and integrated systems to a wide variety of customers. Part of MWES' success has been its ability to tap new markets, including one of the company's more recent endeavors, which involved designing robotic welding positioners.

Prior to the adoption of robotic welding positioners, manufacturers were obliged to manually manipulate parts to be welded, which, in the case of extremely large parts, often required the use of a crane. While humans can and do perform amazing feats of engineering and manufacturing, it is difficult to beat robotics when it comes to work that requires exact positioning. Robotic welding positioners became the solution for companies requiring the ability to accurately weld large parts.



Bearings and pinions provided by SlewPro ensure smooth and safe operations for the Skyhook.

MWES offers three different robotic welding positioners, including the Skyhook, a two axis "L" arm positioner. The Skyhook system is capable of working with parts or objects weighing in excess of 50000 kg (110231.13 lbs.), and smoothly turning those parts to deliver accurate positioning for welding. It was during the design of the Skyhook that MWES turned to SlewPro for assistance.

Frustrated by a lack of responsiveness to its needs during consultations with other parts manufacturers, MWES found a willing and enthusiastic partner in SlewPro.

“Now that we’ve found SlewPro, getting help with sizing and working through the design process has been a relief,” said Andrea Houseman, mechanical engineer, MWES. “When you look at the size of the positioners and the heavy products that are being manipulated, making sure you have the sizing right, including the safety factor, is huge. On top of it all, the price point and lead times offered by SlewPro were very competitive.”

SlewPro was able to manufacture custom bearings and face-mounted pinions for MWES, all of which are backed by SlewPro’s dedication to quality management and adherence to ISO 2008 standards. Along with its willingness to work with a company to assure all needs are met, SlewPro is capable of quickly delivering vital parts with its standard 10 week delivery time.

Following the success of the Skyhook project, SlewPro has continued to work with MWES, providing bearing and pinion combinations for a number of solutions, including a miniaturized version of its robotic welding positioner, and a truck-mounted swivel mount for MWES’ robotic positioner which helped it achieve a full 360° freedom of movement. For more information about what SlewPro can do for your company, please [contact us here](#).

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