

Gliding Surface Technology Works Wonders for Welders

Setting the Scene

Due to the dirty environment that the machines operate in, An OEM that builds welding equipment was experiencing problems with their current line of machines; also current operating machines were failing to carry the workload.

The Challenge

PBC Linear was faced with coming up with a design that could handle the projected workload and the harsh environment in which the machine would be working. Every other option for fixing the problem resulted in failure.

The OEM wanted to support and individually adjust two welding nozzles with slides oriented vertically. They needed self supporting manual crank adjustments with a 4-5" stroke. Since the load would not always be held by the operator, he wanted the slide to be self locking as well.

The Solution

PBC Linear decided to implement the Uni-guide system—Gliding Surface Technology (GST)—to handle the workload. Specifically, the D125 system in order to meet the stroke length requirements. The self-lubricating FrelonGOLD® technology provides high tolerance against contamination, shock vibration, and wear. Uni-guide also comes with self-locking vices to compensate when operators would not be holding the device.

Products Used

The D125 Uni-guide with an extended carriage was recommended in order to provide the proper design and technology for the solution. While no quantifiable measurements were specified, the clients were very pleased to say, "To this point, the Uni-guides have worked perfectly. The delivery schedule was great and installation was easy."

