

SERVO INDEXER POSITIONS FOR MULTIPLE SETUPS



Weld Systems Integrators located in Warrenville Heights, Ohio specializes in the design and manufacture of turnkey robotic, automated, and manual weld systems.

A recent WSI robotic weld system was installed for the welding of right and left hand automotive components. The challenge was to build a system capable of producing either part with no machine changeover. Processing required four stations for loading, welding, inspecting, and unloading the parts.

By utilizing the discreet I/O positioning capabilities of Centricity's EZ Indexer, WSI was able to mount eight fixtures then position the indexer to fixtures 1-3-5-7 or 2-4-6-8 depending upon which hand was being produced.

General Manager Rick Hartman sought an alternative to mechanical indexers. "Centricity's EZ Indexer provided the flexibility required to eliminate down time that is typically associated with part changeover. We simply positioned the indexer through the use of discreet I/O to the set of fixtures in play. Electronic torque limiting, fine home adjustments, and other standard features of the indexer made everything that much easier.

Centricity supplied an EZ Indexer with rotary chassis, servomotor with digital AC controller, position feedback, cables, simple-to-use Microsoft Excel® spreadsheet software, and an interface board that simplifies wiring and use of the discreet I/O feature.

According to Hartman, "we were able to eliminate changeover down time, and with Centricity's assistance reduce the index time from 4 seconds to 2.5 seconds, significantly increasing the production capabilities of the system".

Centricity manufactures servo indexers, custom rotary tables, ID parts feeding systems, and powered and non-powered rotary carousels.

