

Total solution to all position measurement and control



Providing solutions to application ideas

A leading UK manufacturer of handheld units to fully automated CNC and robotic spot welding machines for applications such as electrical cabinet manufacture and metal laminations assembly equipment, with 35 years industrial manufacturing experience and exporting worldwide.

The company first came to us to investigate applying our wire actuated linear sensors as a check that their weld heads were in the correct position. They were initially detecting the position simply via the sensors on the back of the axis motor but due to the mechanical error build up between the sensor and the weld head with backlash and flex in the machine frame they required confirmation of this error. This was causing the welds to be applied in the wrong places. In this particular instance, they confirmed finding errors between where their axis controller was indicating the weld head was and where the weld head axis was actually positioned. Now they needed a solution to apply to the welding machines to help correct the known error.

The solution was to provide a linear sensor that was robust and easy to mount directly to the weld head. Mechanically robust so that it is not affected by dust and dirt and also very electrically robust due to the strong electrical fields present on this equipment. In this case the MSK5000 sensor was used to meet the 0.01 mm resolution required by the client at a signal level compatible to the Baldor axis controller used. The sensor is maintenance free via the use of non-contact measurement technology and also offers a high level of environmental protection to IP67 rating.

Our customer now has efficient direct position feedback into the axis drive so that the automatic weld head can be adjusted into the exact correct position. The linear sensors give them reliable, robust and accurate position information making each welding task faster. This of course reduces the cost of each task and also wastage associated with incorrect weld position.



Our Application Engineers welcome the opportunity to discuss your situation to help achieve the results you need.

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