

**DURAROBOTICS™**  
MAKING ROBOTICS MAKE SENSE



## Precision Bending Robotic Work Cell

### Scope

Provide a fully automated system to process a wide range of connectors through a bending process. This was a multi-phased project to help minimize risk on both the buyer's and the seller's behalf.

### Solution

Durabotics integrated a Staubli TX90 6-axis robot using a wide variety of industrial automation components and custom tooling. Custom programming and the utilization of an HMI allowed the operator to add parts on the fly and adjust the bend parameters accordingly to compensate for components manufacturing inconsistencies.

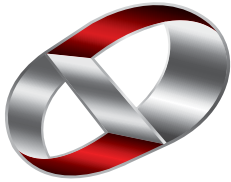
### System Components

Staubli RX90 6-axis robot, main frame/structure, infeed/outfeed conveyors, HMI, fiber-optic and add'l misc sensors; pneumatic slides, clamps, multi-powered cylinders and valves; interlocked safety guarding and electrical controls.

### Result

Successful implementation of robotics to significantly decrease changeover time, increase production rate/throughput and reduce piece-part labor content.

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