

Electronic Throttle Control Sensor Pedal & Assembly



Location: Canada, Mexico, Brazil, China
Project Value: \$400 k
Turnaround Time: 12 Weeks

One of our specialties at **IAT Global** is the manufacturing of automated equipment that can be customized to optimize production for a wide range of applications and global manufacturing facilities. The equipment shown here is a flexible work cell that is designed to assemble electronic throttle control (ETC) sensors and pedal assemblies for customers in the automotive industry. The semi-automated system is designed to assemble and test the ETC system using heat staking and robotic contact soldering technologies while maintaining dimensional tolerances as tight as 3 mm.

The finished ETC assembly undergoes electronic testing through a LabVIEW program and a servo positioner to verify its conformance to all applicable specifications. Seals are also leak tested to verify the mechanical integrity of the assembly. All of these operations are performed in a cycle time of only 24 seconds, providing significant labor savings over manual processes. These systems can be found in automotive plants around the world, including in Mexico, Canada, China, and Brazil, with a typical project value of \$400,000.

This ETC assembly and testing system typically requires approximately 12 weeks for manufacturing and delivery. For additional information about the custom assembly equipment project, contact us directly at info@iatglobalmfg.com.