

## **Weld Proving Services Kavin Inc**

At Kavin Inc, our Weld Proving service is a critical part of robotic welding deployment, focused on achieving optimum weld integrity, repeatability, and process efficiency.

We conduct a comprehensive evaluation and fine-tuning of welding parameters tailored to your specific job requirements—considering material grade, joint configuration, part tolerances, weld positions, and production cycle times.

### **What We Do:**

- **Parameter Optimization:**  
We precisely calibrate welding current, voltage, wire feed speed, torch angle, travel speed, and stick-out length to ensure deep penetration, minimal spatter, and consistent bead profile.
- **Consumable Control:**  
Our engineers assess and standardize the use of filler wire type, shielding gas composition and flow rate, nozzle & contact tip wear patterns, and torch maintenance intervals, leading to extended consumable life and reduced downtime.
- **Process Stability:**  
Using real-time monitoring and trial data, we validate arc stability, heat input consistency, and arc start reliability, ensuring every weld is mechanically sound and visually consistent.
- **Cycle Time Optimization:**  
We analyse robot motion paths and interposes timings to fine-tune the welding sequence, minimizing non-productive time and improving overall cycle efficiency without compromising weld quality.

### **Benefits:**

- Reduction in rework and rejection rate
- Lower consumable consumption and operational cost
- Enhanced arc-on time and robotic efficiency
- Improved first-pass yield and process reliability

With Kavin Inc's weld proving expertise, your robotic welding solution will not only meet technical standards but exceed productivity and cost-saving expectations.