

SMT WORLDWIDE

 PART OF INCORPORATECHNO



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19-1 Robust Manufacturing Process Development

SERV-038

Robust Manufacturing Process Development

Positioning

SMT Worldwide provides advanced process development services to ensure manufacturing processes are designed, validated, and industrialized with maximum repeatability, reliability, and efficiency before production ramp-up. We act as a strategic manufacturing partner, combining process engineering, materials expertise, equipment knowledge, and quality methodologies to build robust production processes from the ground up.

Objective

- Reduce industrialization risks
- Accelerate product launch
- Improve process capability
- Ensure repeatable production quality
- Minimize future yield losses
- Establish stable production windows

Scope of Service

Process Assessment

- Product review
- Manufacturing requirements analysis
- Material compatibility assessment
- Critical parameter identification

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Process Development

- Definition of process flow
- Equipment selection support
- Parameter development
- Process window optimization
- Recipe creation

Risk Analysis

- Process risk assessment
- Identification of critical variables
- Preliminary PFMEA support
- Control plan recommendations

Validation Activities

- Prototype builds
- Process characterization
- Repeatability studies
- Capability analysis

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Methodology

1. Requirements Review
2. Process Mapping
3. Parameter Development
4. Pilot Validation
5. Risk Analysis
6. Documentation
7. Industrialization Support

Deliverables

- Process Flow Diagram
- Process Development Report
- Parameter Matrix
- Validation Results
- Capability Assessment
- Industrialization Recommendations

SMT Worldwide Value Added

- Electronics manufacturing expertise
- Semiconductor process knowledge
- Demo Center resources
- Advanced engineering team
- AI-assisted process analysis
- Complete industrialization support