DI LABS

Steps From Concept to Scaled

DIGITAL PRODUCTION

STEP 01

Regulatory & Performance Requirements Definition

We start by understanding your specific needs, including material properties, tolerances, mechanical performance, and surface finish.

STEP 02

Feasibility & Form Fit Testing (PPAP 1)

We manufacture an initial batch based on your existing design to establish a baseline for evaluation.

STEP 03

Engineering Review & Process Optimization

We work closely with you to review initial results, addressing performance, fit, and finish concerns.

If needed, we refine the design for better manufacturability and performance.

STEP 04

Dimensional Validation & Quality Benchmarking (PPAP 2)

We produce refined samples with a strong focus on dimensional accuracy, consistency, and repeatability under real-world conditions.

You assess these parts for compliance with their quality expectations, evaluating factors such as tolerances, mechanical performance, and surface finish consistency.

STEP 05

Design Optimization for Scale

Based on feedback, we collaborate on necessary refinements to enhance manufacturability while maintaining performance expectations.

STEP 06

Quality Control & Production Readiness (PPAP 3)

We document key process parameters to ensure repeatability and traceability.

Approval at this stage enables progression to pilot production.

STEP 07

Pre-Production Validation & Scalability Testing

A larger batch is manufactured under controlled conditions to validate the process and confirm all requirements are met before full-scale production.

If adjustments are needed, we revisit sample validation before proceeding.

STEP 08

Series or Batch Production

Once the design and process are locked, we manufacture components at the required production volumes with verified consistency.

Any design or process changes restart the validation cycle to maintain quality.

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