

## **Algorithm to improve process robustness in the assembly & test manufacturing industry a case study of the 1064nm wavelength laser mark equipment**

### **Abstract**

This document explains and demonstrates the generic improvement algorithm created to enhance the maintenance methodology in the semiconductor manufacturing environment. The use of this algorithm demonstrates how a process and equipment can utilize it and get better output quality from a process and cost standpoint, which is a key driver in any manufacturing industry.

**Keywords;** Case study; IR laser; Laser mark; Maintenance algorithm; Quality output; TRIZ