ALACRIANT
Manufacturing Outcomes

CASE STUDY

Rapid Rescue Case Study: Revitalizing Agriculture OEM Production

Introduction

Alacriant's Rapid Rescue Team is committed to swiftly addressing critical challenges in manufacturing, ensuring minimal downtime and optimal production. This case study highlights our recent intervention with a leading Agriculture OEM facing line-down implications due to a troubled offshore supplier.

Problem statement

The customer experienced a line down situation caused by an offshore supplier struggling to deliver conforming parts. The initial request was for 2,500 pieces as a one-time order to supplement the incumbent, with a critical need for PPAP completion in less than four weeks. The urgency included building weld fixtures and reaching a production rate of 100 pieces per day post-PPAP approval.

Objectives

Addressing
Promptly addressing the line-down situation is crucial for Alacriant.

Timeframe
Alacriant aims to achieve PPAP approval within a tight 4-week timeframe.

Approval
Establishing a production rate of 100 pieces per day post-PPAP approval is a priority for Alacriant.

ALACRIANT
Manufacturing Outcomes

Manufacturing outcomes

The implementation of our methodology resulted in the following outcomes:

Swift Response and Tech Review:

Provided a quote in 3 days, including a tech review with the customer.

In-House Tooling Design and Build:

Designed and built tooling in-house in less than 2 weeks.

Prototype Division and Weld Team Efficiency:

- Utilized the Prototype division for rapid prototyping and weld team to complete the first units in days.
- Submitted units to the customer for fit-up and provided on-site support.

Expedited PPAP and Production Ramp-Up:

- Expedited PPAP approval.
- Ramped up production from 20 to 100 pieces per day over 2 weeks.
- Dedicated 5 welders to the project at the start.

Recognition and Additional Business:

- Successfully delivered all 2,500 pieces.
- Awarded 50% of the production volume based on excellent quality and delivery performance.

Continuous Improvement and Cost Savings:

- Proposed an improved robotic welding approach with high-volume tooling.
- Achieved a $437,000 annual cost savings and increased throughput.
- ROI on the new tooling was less than 4 months.

Lessons learned

- Alacriant's rapid response and in-house capabilities are critical in urgent situations.
- Alacriant's collaborative on-site support strengthens customer relationships.
- Alacriant's continuous improvement can lead to significant cost savings and increased efficiency.

Recommendations:

Leverage the success of this case study to explore similar collaborative projects, emphasizing rapid response, in-house capabilities, and continuous improvement for enhanced efficiency and cost savings.

Conclusion:

The Rapid Rescue Case Study illustrates Alacriant's dedication to overcoming manufacturing challenges with speed, precision, and innovation. The successful intervention not only resolved the immediate line-down situation but also resulted in long-term business growth through recognized excellence in quality and continuous improvement initiatives.

References:

Internal project documentation and reports.
Customer feedback and communication records.