CURING OVEN PERFORMANCE IMPROVEMENT

In our ongoing efforts to enhance productivity at Amara Raja Energy & Mobility (ARE&M), we've identified the curing process as pivotal for optimization. Currently, this battery development stage consumes over 52 hours, impacting production efficiency. By streamlining this cycle time, we anticipate significant improvements in manufacturing productivity, aligning with our commitment to operational excellence and performance enhancement.

PROBLEM STATEMENT

To conduct an in-depth examination of the underlying reasons behind prolonged cycle times, including process inefficiencies and bottlenecks, and to formulate specific design modifications targeted at optimizing workflow and streamlining operations to achieve significant reductions in cycle times.

CASE STUDIES



APPROACH

Utilizing digital software, our team meticulously analyzed existing products and conducted multiple iterations with varied dependent variables to enhance performance without sacrificing quality. This iterative process has been instrumental in reducing cycle times, as each adjustment is carefully calibrated to optimize efficiency. By continually refining our approach and leveraging advanced technology, we've not only achieved improvements in product performance but also streamlined production processes, resulting in more efficient operations, and ultimately contributing to greater overall productivity and customer satisfaction.











CASE STUDIES

OUTCOME

The existing design exhibits a non-uniform flow, prompting recommendations for design modifications. Proposed changes include altering the suction opening to enhance uniformity and reduce time requirements. By implementing these adjustments, we aim to optimize flow consistency and efficiency, resulting in improved overall performance and productivity.

Our white paper focuses on optimizing the curing process at Amara Raja Energy & Mobility (ARE&M). With cycle times exceeding 52 hours, streamlining this stage is crucial for productivity gains. Through meticulous analysis and iterative adjustments, we aim to enhance flow consistency and efficiency. Stay tuned for insights into our findings and proposed solutions to boost overall productivity.

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