Cylinder Block Maching Line - Throughput Improvement

Key Points

-Validation of production capacity for a proposed line

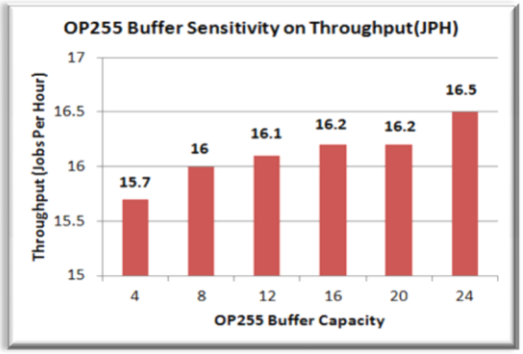
-Impact of gantry availability on production

Client's Challenge

-Validate proposed facility's ability to produce 29,500 cylinder blocks annually(14.8 JPH)
-Minimize buffers while maintaining production above requirement

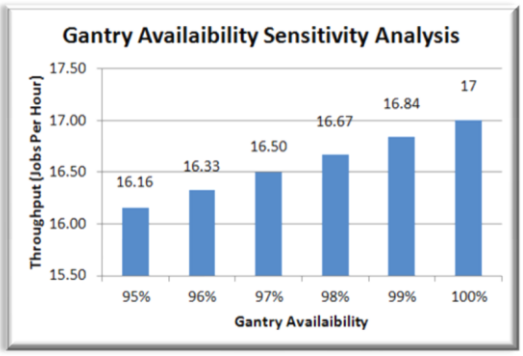
PMI's Approach

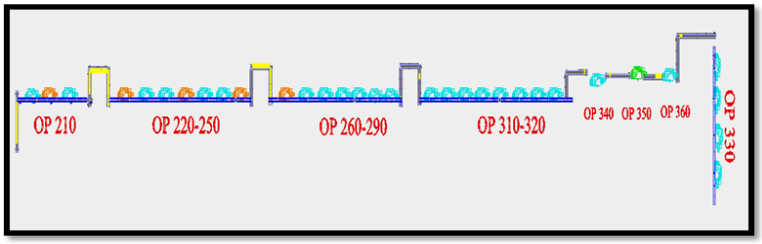
-Collection & Analysis of Data
-Verification & Validation of Baseline Model
-Identify top 3 bottlenecks in the line
-Perform experiments to analyze impact on throguhput of:
1. Buffers
2. Gantry Availability

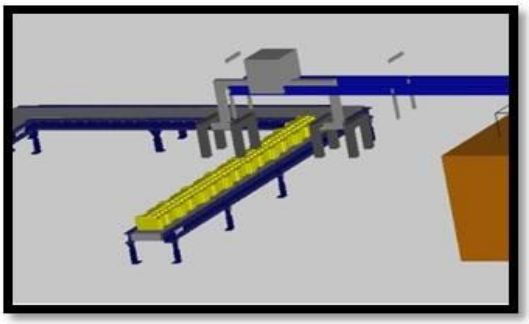


Findings & Recommendations

-Proposed facility was capable of functioning at 16.5 JPH (Target: 14.8 JPH)
-Predicted future bottlenecks in the system
-Reduction in buffer size led to reduced production
-Reduction in gantry availability did not significantly impact production







*Data shown here has been modified to protect client confidentiality

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