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Master Diploma thesis

SMED Analysis of production line and improvement proposals in order to decrease changeover times

Disciplines: Engineering
Topic: Single-Minute Exchange of Die (SMED) Analysis
Keywords: SMED, Optimization, Changeover, OEE, Lean production

Background of the project:

Since 1916, Mubea stands for high-quality products and innovation strength. We see ourselves as a global partner for the automotive industry and as an innovative lightweight design specialist providing high stressed spring components and related products.

Single-Minute Exchange of Die (SMED) is one of the many lean production methods for reducing waste in a manufacturing process. It provides a rapid and efficient way of converting a manufacturing process from running the current product to running the next product. This rapid changeover is key to reducing production lot sizes and thereby improving flow and OEE (Overall Equipment Efficiency) in which we see great potential for improvement in our plant. It is also a great opportunity for students to increase knowledge about latest production optimization methods.

Task:

- Observe current situation
- Separate internal from external setup operations
- Convert internal to external setup
- Standardize function, not shape
- Use functional clamps or eliminate fasteners altogether
- Use intermediate jigs
- Adopt parallel operations
- Eliminate adjustments
- Mechanization
- Cost/Benefit analysis



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