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Master Diploma thesis

Optimization of milling conditions in order to minimize burr occurrence

Disciplines: Mechanical engineering

Topic: The aim of this research is to optimize parameters of milling process to minimize burr occurrence during notch production.

Keywords: Milling process, Optimization, Burr

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.

Burr is inseparable part of machining process, but although it is almost impossible to eliminate, it can be minimized. Presence of burr is at most unwanted because it increases cost of production. Burr represents possible injury risk of machine operator, causes problem by assembly and accelerate tool wear. Therefore it is additional operation required called deburring which bears additional investment and tool costs. This operation can be avoided.

Task:

- Observe current situation
- Online Diagnosis of cutting plates (research)
- Investigate creation of burr
- Investigate influence of process parameters
- Define and implement new parameters



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