

Laser polished SLS Parts

Enabling Industries Through better surface quality



Motivation and Relevance

- FDM and SLS part often have poor surface quality and need to be polished before end use
- State of the art processes bring in foreign particles, have low polishing results or need a lot of manual labour

Approach

- The outer layer is melted with a laser and surface tension smoothens parts
- Influence of print parameters on surface quality after polishing need to be investigated

Results

- fully automatic polishing without chemicals or inducing foreign particles
- Parts can be printed faster and cheaper
- Mechanical properties are improved

Surface Quality



Production costs



Properties



Research Area

- Postprocessing
- Laser polishing

Partners



Picture



Contact



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