

Geometry Adaptive Scan Strategies for PBF-LB/M

Enabling Industries Through Computing Geometry-adapted Arrangement of Scan Vectors for PBF-LB/M



Motivation and Relevance

- **Currently**, high effort for tailoring the scan strategy to a part geometry, especially through laser parameter adaption
- **Tailoring the geometric vector arrangement** to a part's geometry, before the laser parameters are adjusted, offers currently unused potential towards **first-time-right**

Approach

- R&D of algorithms to geometrically arrange scan vectors, before laser parameters are tailored
- Investigation, how well challenging geometric features can be printed, with geometric scan vector adaption but without tailoring laser parameters

Results

- Test geometry with different geometric features (image on the right) was printed successfully

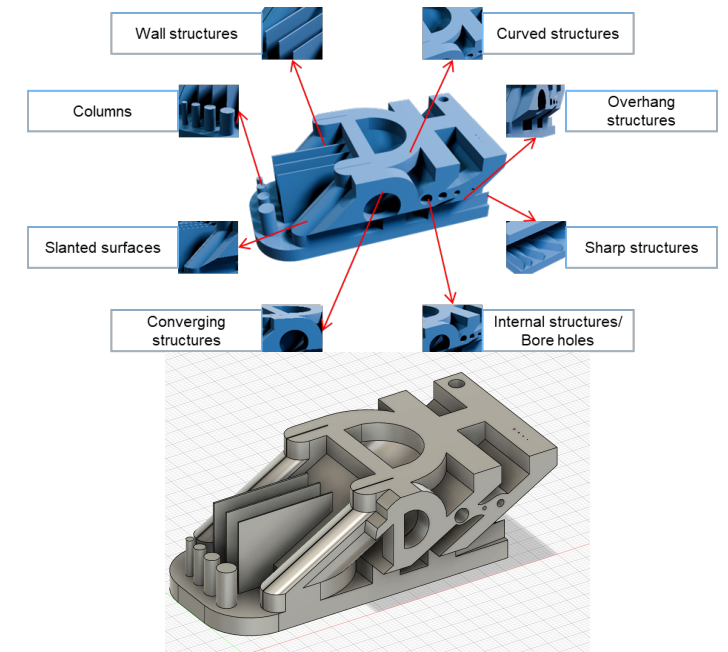
Research Area

- Data preparation software

Partners



Picture



Contact



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