

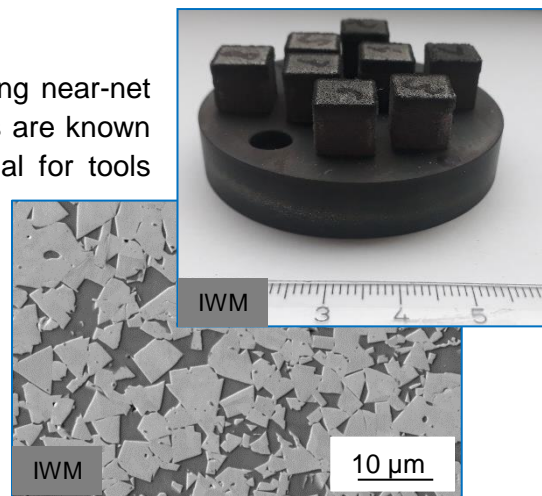
Bachelor Thesis/Mini Thesis

Influence of powder bed preheating on grain size distribution of cemented carbides

Are you interested in new materials applications? Do you want to be a part of implementation of additive manufacturing for cemented carbides? Are you interested in flexible working hours?

The project

Laser powder bed fusion (LPBF) is used for producing near-net shape parts in small batch sizes. Cemented carbides are known for excellent mechanical properties and are essential for tools manufacturing industry. However, cemented carbides cannot be successfully produced by LPBF, yet. The microstructure which is developed during the LPBF-process differs significantly from the one of conventionally produced cemented carbides. How do LPBF process parameters influence the grain size distribution?



How can you help us?

- Analysis of SEM-micrographs
- Assessment of suitable software solutions
- Correlation between LPBF process parameters and grain size distribution

How can we help you?

- We will introduce you to the topic
- We support you. Regular meetings help you to complete your work quickly.

Contact

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