

Rethink production

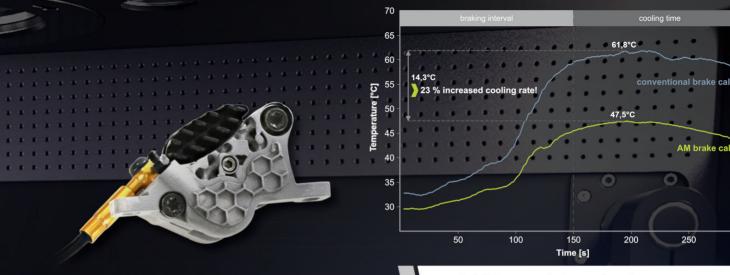
Push your bike parts to the next level!



Our Additive Manufacturing technology for your Bicycle Application:

Laser Metal Fusion (LMF/LPBF)





Brake Caliper*

Material: AlSi9Cu3

Integrated cooling structures for optimized efficiency

- Lattices and honeycomb for improved air cooling
- Lightweight through material saving
- Customizable brake designs from quantity one
- No restrictions for inner oil flow design

EFFECT: Cooling rate performance increase by 23%

*Functional design based on conventional caliper

Additive serial production

Part costs "Brake Caliper" with optimized 3D printing production:

■ Machine: TruPrint 3000

■ Parts p. a.: 15.000

■ Overall build time: 91h

■ Parts on platform: 280



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Benefit from our AM Bike Application Experts at TRUMPF

Improved performance

Form follows function: High performance materials and new design options (e.g. topology optimization) enable unmatched part performance

Lightweight

Removal of unnecessary volume to safe weight. Lattice structures and a high variety of infills maintain the part strength and reduce material at the same time.

Highend materials

Efficient usage of high strength materials like aerospace grade titanium allow completely new applications both for mechanical stress resistance and volume reduction.

Competitive part costs

In terms of sustainability and additive serial production the TRUMPF TruPrint machines guaranty a highly efficient material usage resulting in attractive part costs.







