cerlikon am

Case Study

UBRacing throttle and brake pedals

Designed, optimized, and built for speed

Challenge

- Reduced component weight
- Part count reduction
- 500N load for throttle pedal
- 2400N load for brake pedal

Solution

- Strong, lightweight Scalmalloy (AIMgSc) material
- Structure designed for AM, PBF-LB
- Topology Optimized for the process and load conditions
- Bionic and Lattice structures to reduce weight
- Tested under loading conditions at IABG

Impact

~ 19% weight savings achieved per pedal









Oerlikon AM partners with global manufacturing leaders to co-develop and launch high quality metal AM materials, processes and components. Consult with our team of experts on your industry-specific challenges.

Contact us at am@oerlikon.com





Congratulations to the 2019 UBRacing team!





Brake test

Endurance run



2019 University of Birmingham racing team

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