

# EOSINT M enables low weight and individualized products

## Project summary

- Requirements:
  - low weight
  - customized product design
- Solution:
  - DMLS with EOSINT M 270
  - Ti6Al4V light alloy
  - design optimization for DMLS
- Result:
  - weight: 12g
  - individual labelling
  - hollow structure
  - textured surface for improved grip



Brake lever built in EOS Titanium Ti64 on EOSINT M 270

# EOSINT M enables rapid production of thin walled parts

## Details of production

Machine:

- EOSINT M 270

Material:

- EOS Titanium Ti64

Layer thickness:

- 30  $\mu\text{m}$

Time to build:

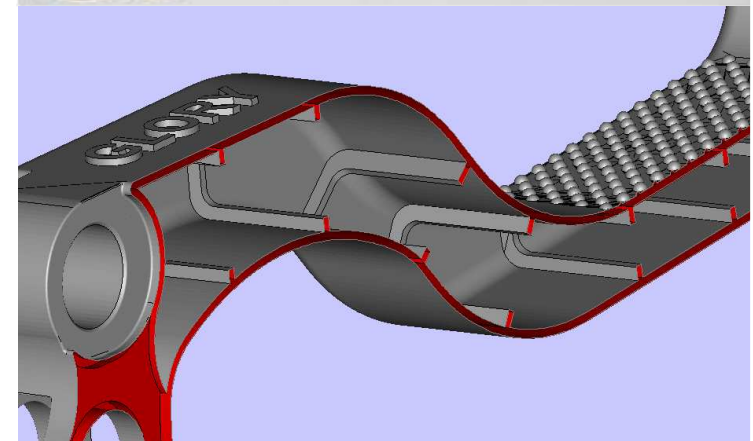
- approx. 1 hour (6 parts in 6h 37min)

Wall thickness

- 0.6 mm

Post processing:

- Just support removal and micro-peening



Above: Brake lever built in EOS Titanium Ti64 on EOSINT M 270.

Below: Sectional view

**Materials Solutions**

Rapid development to meet environmental challenges

Source: Materials Solutions

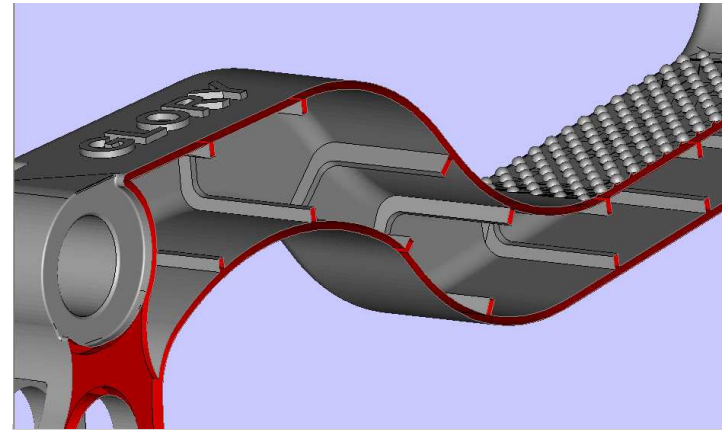
EOS 2009 · Case Study *M* Bicycle brake lever · SW

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e-Manufacturing Solutions

With DMLS enormous weight savings are possible



Design optimized for production by DMLS

Conventionally manufactured brake lever in aluminium

