

### LMM4M

products, services and app to connect

LMM with MARKET4.0

## Name of the Service/Application

- Manufacturing machine "Hammer Lab35"
  - Manufacturing service with the new lithography-based metal manufacturing (LMM) technology
- Analysis app for part production

#### **Features**

LMM technology can produce components with very good accuracy, precision and surface finish. No support structures are required in the printing process, which means that the user is limited to almost no restrictions. Another advantage is that no thermal stresses are introduced during the printing process. Non-weldable metals can be processed and after sintering the user gets purely metallic components with a dense microstructure.

#### Benefits

Thanks to the link with the MARKET4.0 platform, customers can now enjoy an easier selection and ordering process. Furthermore, the desired parts can be analyzed in advance with the new app.



# This work has been performed in the context of the **LMM4M** project, an open call #1 winner of the H2020 MARKET4.0 project (market40.eu), with participation of

- > Incus GmbH, <u>www.incus3d.com</u>
- MetShape GmbH, www.metshape.de
- > PRIA , pria.at



HAMMER LAB35

## Service/Application validation

The figure below shows the results of analyzing the 3D model of a rotor to be produced using lithography-based metal manufacturing. For instance, the very thin rotor edges are marked because they could break during printing or the post-processing.

Q Suchen

O A https://lmm4m-app.pria.at



The H2020 MARKET4.0 project develops an open multi-sided digital platform for enabling production equipment and service providers to connect and work together with manufacturing companies. The MARKET4.0 platform enables new business, based on value-adding interactions among the production equipment and service providers and their customers while at the same time provides an open and participative infrastructure for these interaction