

METAL ADDITIVE MANUFACTURING

The Company

• Founded in 2020 in the Basque Country

 Specialist in Design, Manufacturing and Post-processing for SLM technology of metal 3D printing.

• Team with high experience in the technology applied to the aerospace sector and in the industrial and metallurgical design sector.





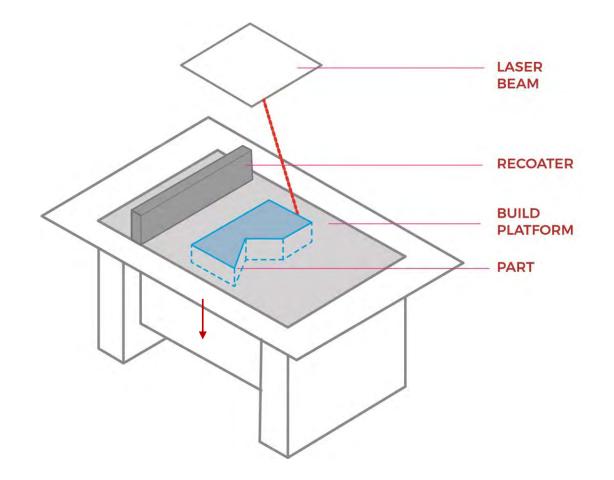
Selective Laser Melting

Commonly known as metal 3D printing, SLM is included within the **additive manufacturing technologies**.

A SLM machine fuse **metal powder** layer by layer using a **high power laser**.

Video:

https://www.youtube.com/watch?v=rcqw6HZACbY





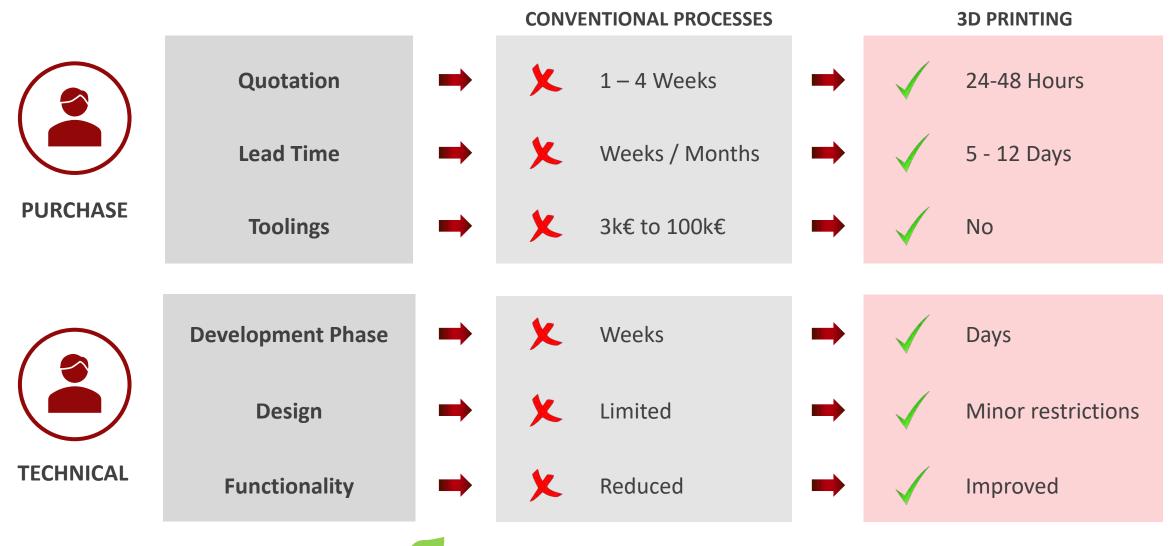


Selective Laser Melting

✓ High material **density** (> 99,9%)

- ✓ High mechanical properties
- ✓ Good tolerances (ISO2768mk)
- ✓ Max. dimensions (250 x 250 x 320mm)

Benefits of Metal 3D printing



also considered a green technology!

Projects portfolio



SHORT BATCHES



PROTOTYPES & PRE-SERIES



UNITARY PARTS



IMPROVED DESIGNS

Services and

Capabilities



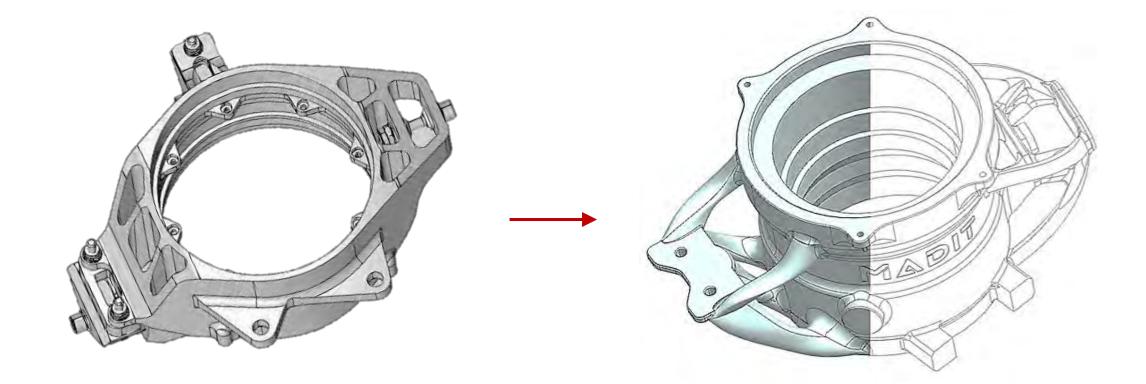
focused on SLM technology





- Objective: to industrialize and democratize technology by improving productivity, reducing deadlines and costs.
- This technology improves the digitalization of production, so that it is included within Industry 4.0.

Desing Services





✓ Improved Functionality

✓ Cost Reduction



Manufacturing Services



Post-Processing Services





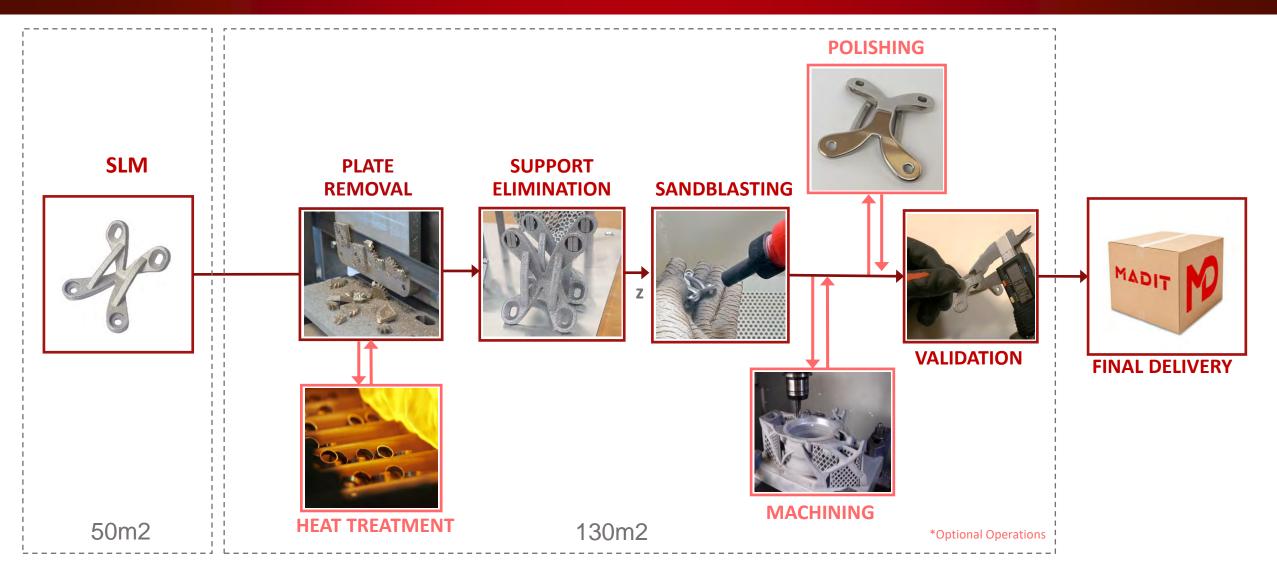
Internal Capabilities



Lead Time & Cost Reduction



Manufacturing Route



The integration of "Inhouse" finishing operations reduces production times and costs.

Post-Processing

Internal capacities:

- Furnace
- Bandsaw
- Turning
- Milling
- Tapping arm
- MIG Welding
- 3D Scanner

Outsourced capacities:

- Wire EDM
- 5-Axis machining
- TIG Welding



Polishing capabilities



Sandblasting finishing



Matt polishing



Mirror polishing



Manual polishing



Sandblasting



Vibrofinishing



Dry electropolishing

Thanks to these operations it is possible to **reduce roughness** and achieve aesthetic and functional finishes. We **advise on the best polishing process** necessary for each project.



Finishes and surface treatments

Internal capacities:

- UTS Cleaning

Outsourced capacities:

- Painting
- Anodizing
- Passivation and blueing
- Nickel and Chrome plating

Applications

Aluminum Alsi10Mg / A13600 / 3.2381

✓ Lightness

- ✓ Corrosion resistance
- ✓ High thermal conductivity
- ✓ High electrical conductivity



Short casting series



Heat exchangers

TREATMENTS

- Anti-corrosión anodizing
- Painting
- TIG Welding



Electronics parts



Pipes & Colectors



Titanium Ti6AI4V ELI (Gr-23) / F136 / B348

✓ Very high resistance

✓ Lightweight

- ✓ Good behaviour at High Temp.
- ✓ Corrosion resistance



Bike Components



Brackets and Supports

TREATMENTS

- Heat Treatment
- Colour Anodizing
- TIG Welding



Manifolds

Stainless Steel 316L / S31673 / 1.4404

- ✓ Corrosion resistance
- ✓ High Resistance up to 300°C
- ✓ High ductility
- ✓ Easy to weld



Turbines & Propellers



Colectors

TREATMENTS

- TIG / MIG Welding
- Nickel and Chrome plating
- Electro-polishing







Brackets & Tools



Hard Steel 18Ni300 / K93120 / 1.2709a

- ✓ Very high hardness
- ✓ Very high resistance



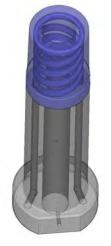
- Heat treatment
- Passivation and blueing



Tools







Inserts

CONTACT



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Let's industrialize metal 3D printing!