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HYPER  
METAL

METAL ADDITIVE  
MANUFACTURING



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**METAL** MANUFACTURING

*Building the future, one layer a time*



### **Metal AM Service Bureau**

We manufacture your parts as a service using Metal Additive Manufacturing

More than **15.000 successful parts** manufactured since 2019

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# Certified Quality Management System

**ISO 9001**- Quality Management System



**AS 9100/ BS EN9100:2018**  
– Quality management System. Requirements for the Space, Aviation and Defence organizations



**ECSS**  
European Space Agency



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# L-PBF Large Volume Capacity

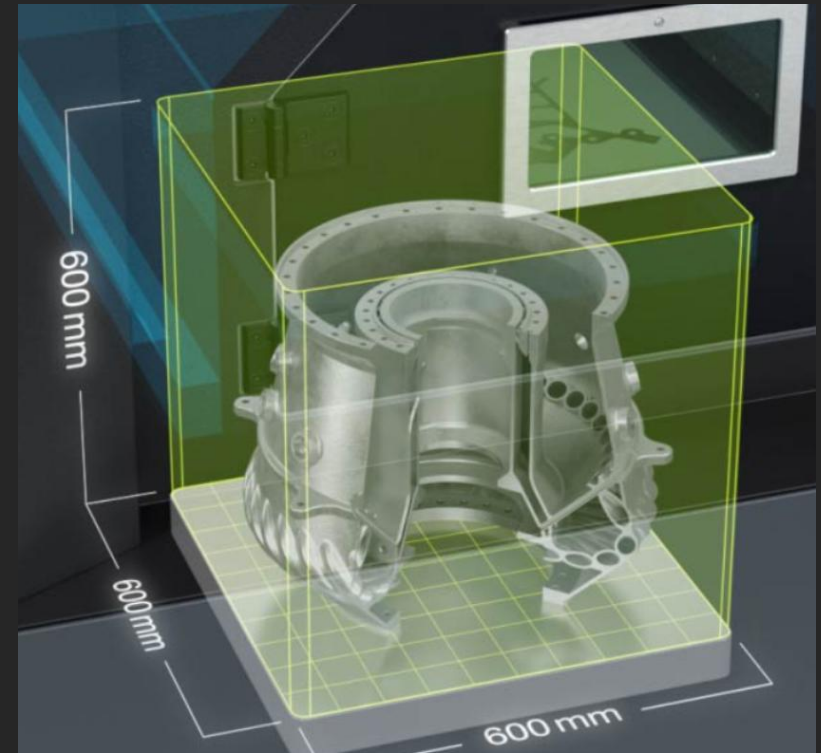


## Nikon SLM NXG XII 600

Installation Q1 2026

Inconel 718

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- One of Europe's largest LPBF production systems
- Ultra-high productivity with 12 x 1kW lasers
- Ideal for large propulsion chambers, structural panels, heat exchangers and complex aerospace assemblies
- Enables single-piece production of parts previously limited by build volume constraints
- Unlocks new design freedom and cost-efficient consolidation of multi-part assemblies






# Our 3 Strategic Pillars



### Quality

- **Quality Management System** (ISO9001, EN9100)
- **Traceability**
- **Continuous Improvement**
- **Quality Control** of the whole production process



### Innovation

- **State-of-the-art** Industrial Metal Additive Manufacturing
- **Metal AM know-how** with highly skilled team
- **R&D Projects**
- **Collaboration with Academia**

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### Lead Times

- **Faster Lead-Times** without compromising quality
- **Efficient Collaboration** (Fast decision-making & Rigorous document control)
- **Client Needs Adaptability** (Flexibility and Communication)

# OUR PROCESS



## Consulting and co-development

- ✓ Support in DfAM
- ✓ Geometric and structural optimisation
- ✓ Feasibility analysis

## Production planning

- ✓ Build strategy.
- ✓ Part orientation.
- ✓ Supports
- ✓ Risk and repeatability assessment.

## LPBF production (in-house)

- ✓ Full process control

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# OUR PROCESS



## **Special processes**

- ✓ Heat treatment
- ✓ Surface Finishing
- ✓ Precision machining.
- ✓ Hybrid processes (AM + CNC)

## **Testing and validation**

- ✓ Dimensional inspection
- ✓ Requirements confirmation
- ✓ Assembly tests



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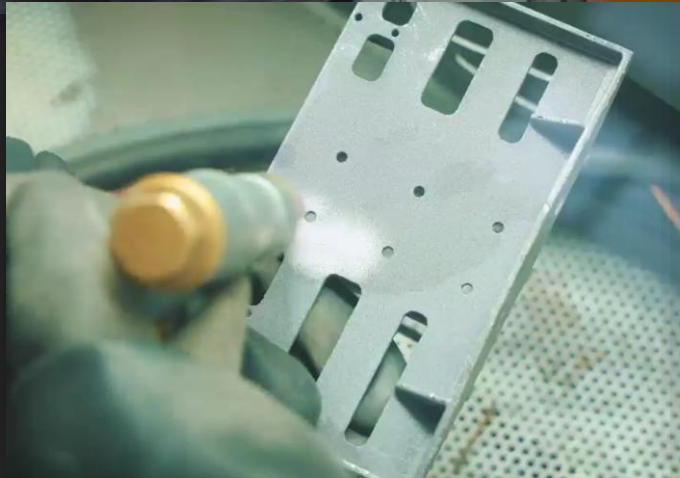
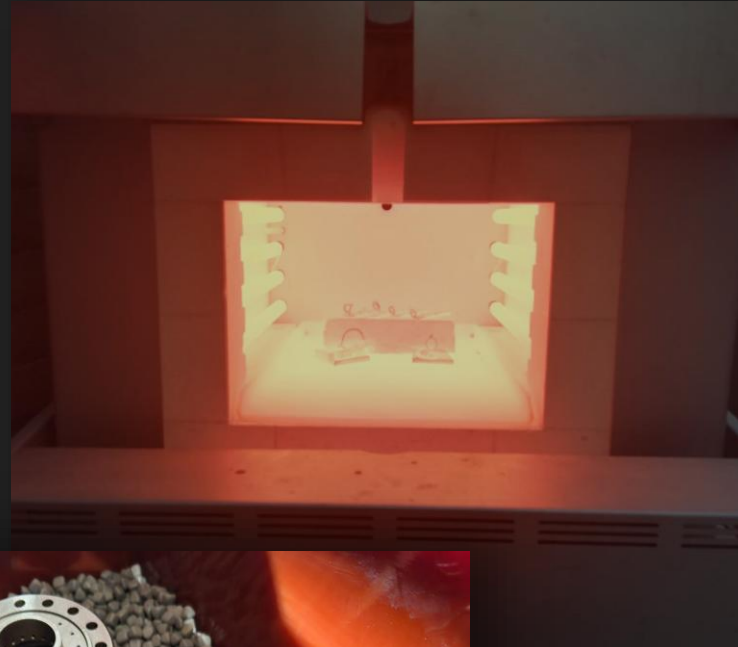
# In-house equipments



- 1x Renishaw AM 400
  - 2x Renishaw RenAM 500S Flex
- 250 x 250 x 350 mm  
Flexibility for a wide range of materials

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# In-house post-processing



- CNC Milling
- Heat Treatment Furnace
- Bead Blasting
- Vibration Tumbling

# Materials

- Aluminium
- Stainless Steel
- Inconel
- M300
- CoCr
- Titanium
- Copper



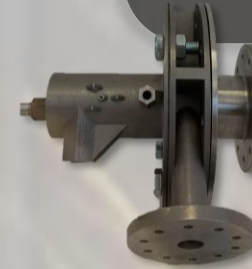


## WHY Additive Manufacturing?

- ✓ Low production series
- ✓ Complex Geometry's (Complex inner structures)
- ✓ Innovative Designs
- ✓ Customization
- ✓ Prototyping
- ✓ Reduced Lead times
- ✓ On-demand Production



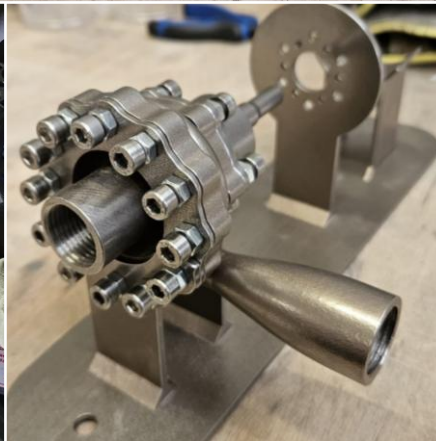
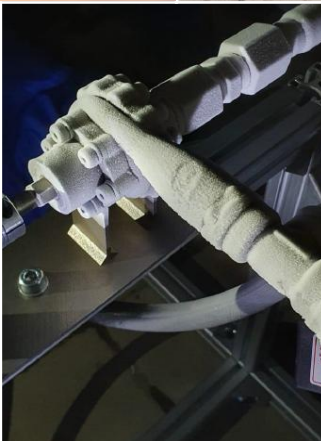
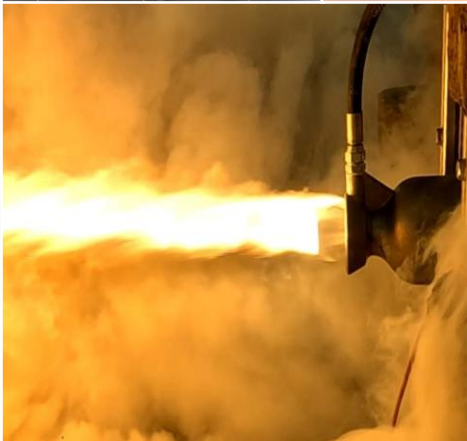
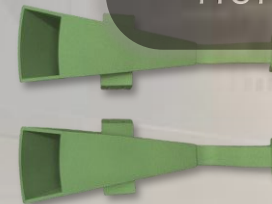
## Propulsion Systems



## Lightweight structures

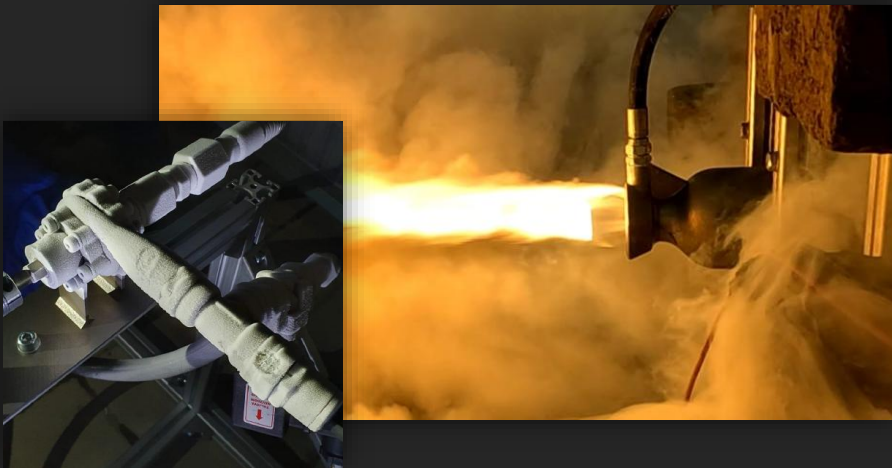


## Horn Antennas



# Full-Cycle Production

- 3D manufacturing
- Heat treatment
- CNC
- Final Assembly



**Ready For Fire Testing!!!**

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# Reference Clients



Company that offers innovative, sustainable and affordable space exploration options.

- Propulsion system of VIRIATO project
- Innovative Additive Manufactured Cobalt Chrome 25kN engine
- Paper presented at Space Propulsion Conference, Glasgow 2024
- Quality Plan and Risk Assessment tailored to our client/project
- Oversight and support by ESA



# Reference Clients

**SIDEREUS**



Italian Company pioneering Ultra-Responsive Orbital Access with EOS

- Multiple iterations of the MR-5 engine and turbo pumps
- Innovation design for AM
- Fast Leadtimes
- Completed Part
  - Heat treatment
  - Machining
  - Assembly verification



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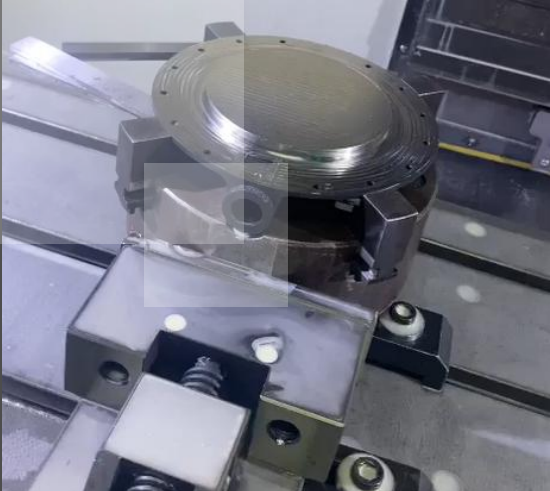
# Reference Clients



- +800 completed projects
- Excellence Award 2023, 24 and 25
- “ ...for recognizing your invaluable insights, consistent production of perfect parts, prompt assistance, and seamless collaboration.”

Marketplace offering parts from prototyping to serial production on-demand.





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