

# NEW ADDITIVE TECHNOLOGIES

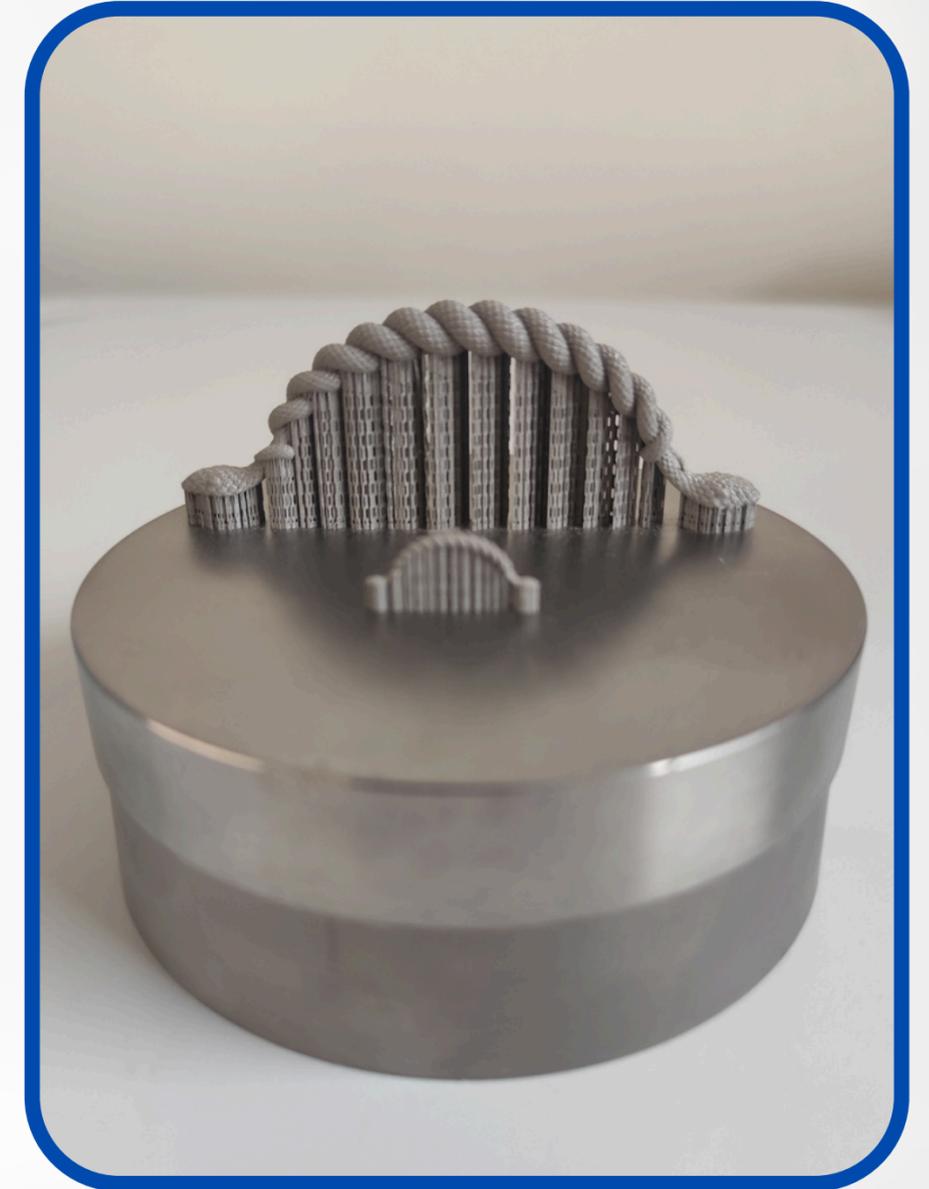
The future of 3D metal printing

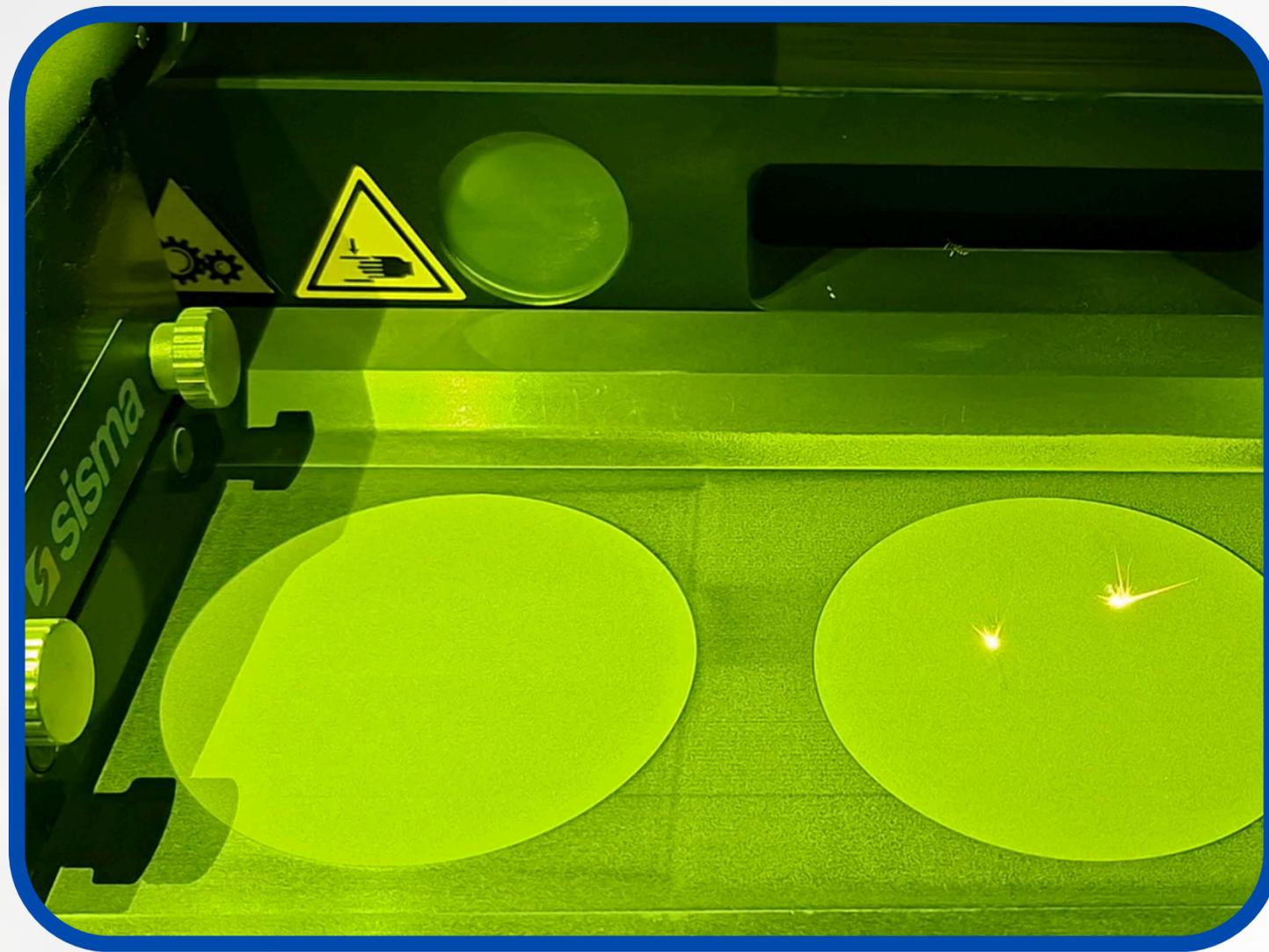


# SLM THE SELECTIVE LASER MELTING

OBE Italia and OMM strengthen their role as an industrial innovation leader by integrating Selective Laser Melting (SLM) technology, also known as Direct Metal Laser Sintering (DMLS).

This process represents the future of manufacturing: a system capable of creating solid, structurally homogeneous components directly from a 3D digital file.





# HOW THE PROCESS WORKS

## **Mechanism**

SLM technology operates by melting ultra-fine metal powders, layer by layer, using a high-power laser.

## **Precision and Quality**

This extreme precision allows for parts a density close to 100% and excellent mechanical properties, ensuring superior quality compared to conventional methods.

## **The materials**

Stainless steel, aluminium, titanium and others.



# STRATEGIC BUSINESS ADVANTAGES

We overcome traditional geometric limits. If you can design it, we can print it, creating organic and optimized shapes.

We drastically reduce waste by using only the necessary powder, eliminating the scraps typical of subtractive manufacturing.

Rapid prototyping and immediate functional tests reduce modification and development times.

1

DESIGN FREEDOM

2

EFFICIENCY AND SUSTAINABILITY

3

DEVELOPMENT SPEED

# APPLICATION

## EXCELLENCE AND VERSATILITY

Utilizing modern machinery, we meet the specific needs of different markets:



### **Jewelry and design**

Creation of objects with ultra-fine details, sophisticated textures, and shapes that defy the laws of traditional casting.



### **Mechanical and Automotive**

Production of high-performance, ready-to-use components. Lightweight, resistant components optimized to withstand extreme thermal and mechanical stress.



### **Medical and Dental**

Customized prosthetics and implants with complex biocompatible geometries designed for specific patient anatomy.

# TECHNICAL EXCELLENCE AND MATERIALS

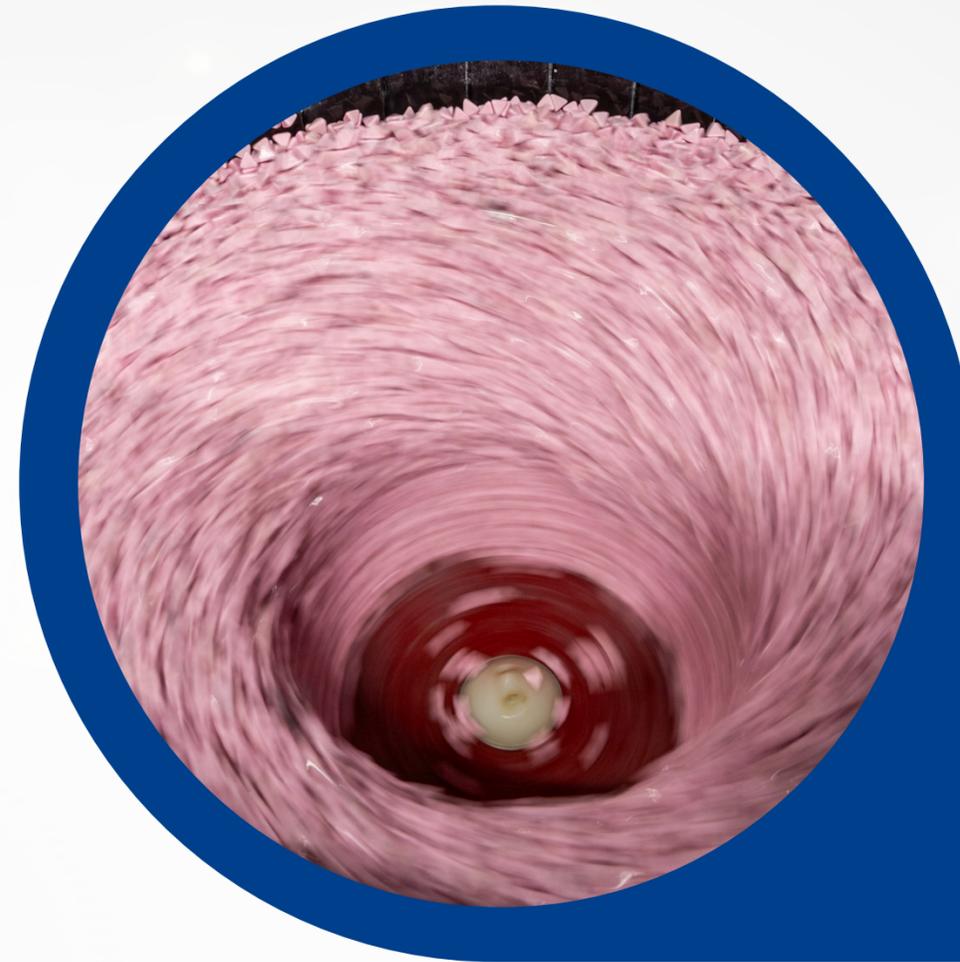
## **Surface Quality**

Our machine fleet uses optimized laser sources to ensure high-quality surface finishes, reducing the need for heavy post-processing.

## **Material Range**

We can process a wide range of metal powder alloys, adapting to specific project requirements for hardness, elasticity, or corrosion resistance.

In addition, we offer extra finishing services like automated and manual polishing, providing a comprehensive, all-round service



**THANK YOU**

