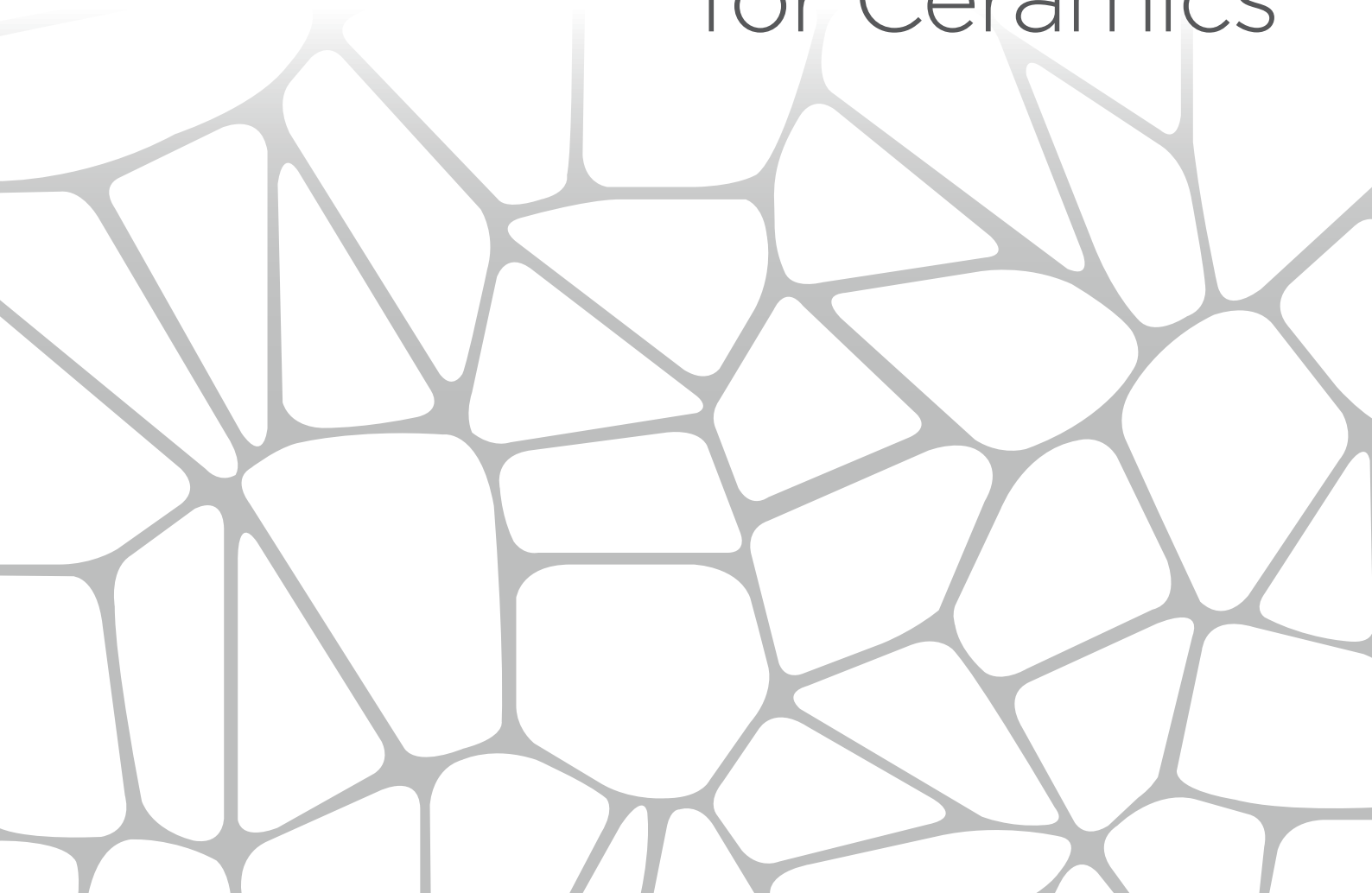


# M.A.T.

Multi Additive Technology

for Ceramics



## Silicon Carbide

SiC is a technical ceramic is very light, stiff, has a wide operational temperature, a very low CTE..the list goes on..

3D printing SiC with this new machine M.A.T. is definitely the right choice for high density parts.



## Ceramic and metal filaments

### PORTFOLIO

#### CERAMICS

##### Silicon carbide

- Very high hardness and wear resistant at high temperature
- High thermal conductivity and low thermal expansion

##### Alumina

- Good mechanical strength and thermal conductivity
- High electrical resistivity, hardness and wear resistant
- Chemically inert

##### Zirconia

- Excellent mechanical properties
- Chemical inertness
- High Hardness

#### METALS

##### Titanium

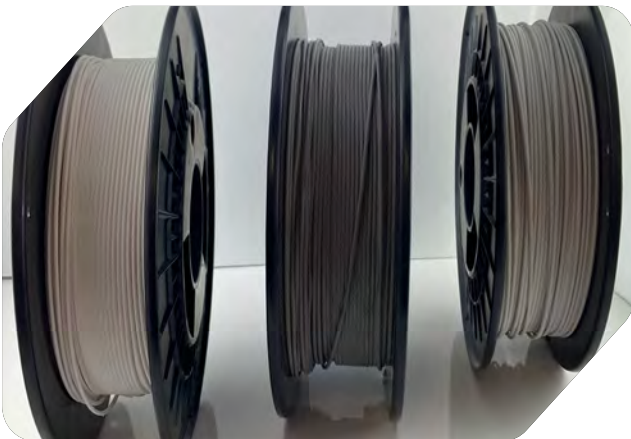
- High strength to weight ratio, low thermal conductivity and CTE, Bio compatible

##### Stainless steel

- Good corrosion resistance, good mechanical strength, easy to machine, low material cost

##### Copper

- High thermal conductivity, high electrical conductivity



# Machine

## M.A.T.

Multi Additive Technology

### A new Multi Additive Technology machine integrates into 3DCeram range of process

The M.A.T. is a new type of machine able to work with several 3D technologies in the SAME equipment (Multi Additive Technology). These technologies can be either supplied by 3DCeram or by customers.

- Build platform: 200\*200 mm and a z axe of 200 mm
- Moving system "core XY" to assure accuracy and stability
- High performance extrusion system, to prevent filament breakage and offer a precise guidance
- Embedded cooling system to get the most reliable print efficiency
- Heated chamber to enable printing of materials with high melting temperature
- Easy removal of the printed part.
- A reinforced structure to add heavy tools
- And many other features to usher in the next generation of manufacturing.

The M.A.T. has been designed as a versatile, accurate and robust 3D tool for research centers which want to develop in house new materials or new 3D technologies.



The M.A.T. [Multi Additive Technology] is a modular machine, here in its FFF version



RESEARCH

A modular machine designed to integrate several technologies:

- FFF
- Machining tool
- Robocasting
- Pellet

NEW



Pellet Extrusion

NEW



Extrusion (Robocasting)



Extrusion (Robocasting for 2 components)



Machining

# 30 PARTNERS WORLDWIDE



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