

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

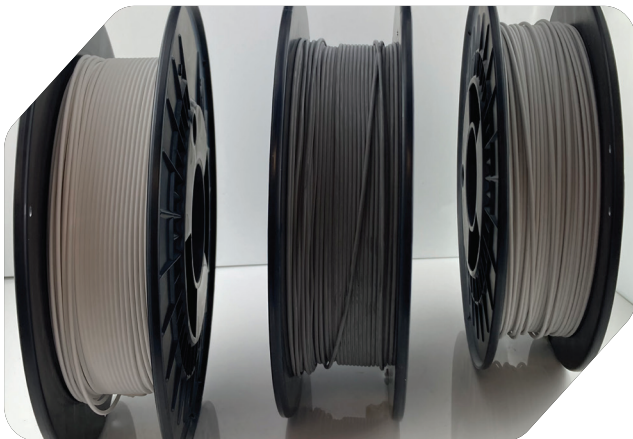
- High strength to weight ratio, low thermal conductivity and CTE, Bio compatible

Stainless steel

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

Copper

- High thermal conductivity, high electrical conductivity



Machine

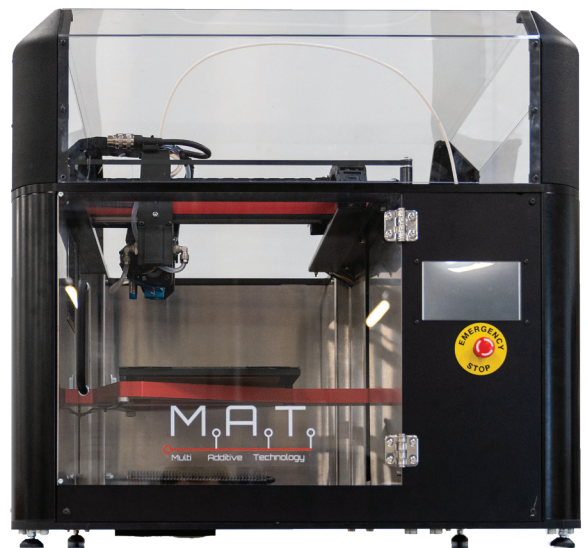


A new Multi Additive Technology machine integrates into 3DCeram range of process

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
- Embeded 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

NEW

RESEARCH

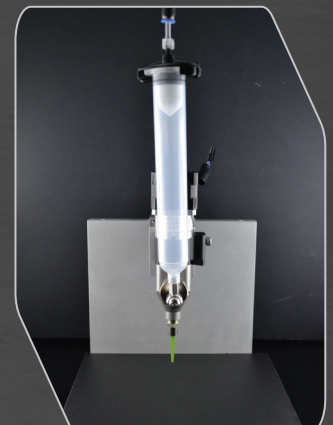


A modular machine designed to integrate several technologies:

- FFF
- Machining tool
- Robocasting
- And much more depending on your needs



Machining tool



Extrusion (Robocasting)

30 PARTNERS WORLDWIDE



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