



## ADDITIVE MANUFACTURING

# CERAMICS

### WHY?

Ceramics have favourable properties such as temperature resistance, durability, hardness and inertness. Our technology allows for the mass manufacture of cost-effective custom ceramic components, achieving high accuracy, resolution and surface finish.

### How?

Using visible light curing technology through LCD screens enables the formulation of a heavily particle-loaded resin which is printed to form a green part. The green parts are post-cured and placed in a furnace for de-binding and sintering during which the ceramic powders are fused together to make a fully dense ceramic part.

### WHICH MATERIALS

- Alumina (applications in automotive, biomedical and hydraulic sectors)
- Silica (applications in aerospace and energy)

### FUTURE DEVELOPMENTS

3D-printing Zirconia and Silicon Carbide.

Developing customised printers for ceramic applications.