



Opiliones

<https://www.opiliones.nl/>

New cost-effective Production Unit for viable, sustainable metal 3DP appliances that are not covered by SLS. Metal 3DP for digital warehousing and rollout of machines.

FDM 3D printing with standard granules from the Metal Injection Moulding industry, consisting of metal powder and binder PEG. This technology is four times cheaper than SLM metal printing and suitable for all FDM printable geometries.

Intended for:

- Digital warehousing for home appliances series size 10 – 100 pcs.
- Parts for standard equipment and machine construction for prototyping and start of production

without an investment threshold.

In the context of 3DOP Opiliones wants to develop a **cost-effective Metal 3D printing production unit** consisting of: 3DPrinters, Debinding technology, Sintering furnace and postprocessing unit.

These production unit(s) will be used by 3DPrinting as a service company in Europe, where there is a demand for cost-effective 3DMetal printing.

New MIM metal granulate printing method

Development of:

- compact extruder capable of printing 100% of all FDM 3D Printable geometries,
- software converting standard filament FDM slicing software into specific granulate compact extruder,
- integration of productions steps in automated process and customer portal

Interests for Tech Demonstration:

- Optimise the sintering of fragile geometries: partners willing to experiment with these fragile geometries and test the sintering
- Roll out & knowledge of polymer properties
- Follow up project opportunities