



Easy and Cost-effective 3D Printing of Metal Parts

Our Metal Fused Filament Fabrication (MF³) experts can provide you with the opportunity to utilize high-quality metal parts and realize high output using this conventional 3D printing technique. Our metal filaments are cost-efficient, easy to process and meet the Metal Injection Molding (MIM) industry standard for catalytic debinding and sintering. Our industry-grade metal-polymer composites support a broad range of applications – including tooling, jigs and fixtures, small series production, functional parts, prototypes, and complex artistic parts like jewelry.

D • BASF

We create chemistry

Benefits at a Glance

- Complex geometries possible with FFF
- Even distribution reduces risk of defects
- Freedom of design
- Easy and affordable metal 3D printing

Example Applications

- Jigs and fixtures
- Series production
- Functional parts and prototypes
- Tooling



Our Approach in Metal for Fused Filament Fabrication

Metal Fused Filament Fabrication (FFF) is a form of Additive Manufacturing where filament is fused together to fabricate a solid part. In the past, FFF has been solely applied to conventional plastics – we changed that.



Slicing

- Printing parameters influence mechanical properties
- Transformation into machine-readable format (g code)
- Slicer can be chosen freely – thus easy to integrate into current workflows



Orientation and Print

- Supports should be minimized
- Largest area as bottom surface



Green Part

- The printed part is called the 'green part'
- Behaves like and resembles a common plastics part before debinding processing



4

Final Part

- Sintering in a 100% hydrogen atmosphere to ensure high material quality
- Material consolidated at high temperatures, maintaining its original shape
- Print now ready for additional postprocessing

sales@basf-3dps.com

Phone: +49 6221 67417 900



www.forward-am.com \diamond sales@basf-3dps.com \diamond Phone: +49 6221 67417 900