

Raise3D MetalFuse



New Technology, A Leap in Efficiency

MetalFuse uses the Catalytic Debinding process, which can represent up to 60% less processing time, and an increase in the part's density of to up to 97% of that of wrought iron.



Adopting a Time-Tested Process

Both the catalytic debinding furnace (D200-E) and the sintering furnace (S200-C) are used to post-process the "Green Parts", in a way to the process that was developed based on BASF's know-how of Metal Injection Molding (MIM).



Complete In-house Solution

MetalFuse is a complete end-to-end solution for metal FFF printing. No need to put your IP at risk by using external services, and no waiting times for third-party completion, as everything is done in-house.



Environmentally Friendly

Filters that clean exhaust gas, bringing them to safe levels and reducing pollution.





Forge1





High-End Metal Filament by BASF

By using BASF Forward AM's metal filaments, Ultrafuse® 316L and Ultrafuse® 17-4 PH, Metalfuse is capable of providing improved printing repeatability and a greater yield rate.



Specialized Slicing Software

A special edition of ideaMaker offers templates optimized for this kind of printing, while also taking into account the sintering and debinding process that can be paired with Metalfuse. This version of ideaMaker also features a simpler slicing process.



Touchscreen

A visual interface that needs only one click to select a template, and stores work history, keeping it available for review.

S200-C Sinter



Technical Specifications

Forge1
620 × 626 × 1390 mm
300 × 300 × 300 mm
FFF
Dual-Head with Electronic Lifting System
0.78125, 0.78125, 0.078125 micron
30-150 mm/s
120℃
Ultrafuse® 316L, Ultrafuse®17-4 PH
2.85 mm
300℃
15-30°C, 10-90% RH Non-Condensing
ideaMaker Metal
STL/ OBJ/ 3MF/ OLTP
WINDOWS
Ethanedioic Debinding D200-E
806 × 905 × 1583 mm
200 × 200 × 200 mm
Adjustable Multi-Level Tray (7 Positions)
Argon or Nitrogen
2 L/ 122 inch ³
5 L/min
1.55 mm/h
220-230 V AC, 50/ 60 Hz, Single phase, 20A, 4.4 kW Peak Draw
Activated Carbon Adsorption Facilities
Sintering (Carbon) S200-C
1434 × 1137 × 1974 mm
200 × 200 × 200 mm
About 20 hours
Adjustable Multi-Level Tray (6 Positions)
Argon, Nitrogen
14 kW
1450°C/ 2642°F
380-400 V AC, 50/ 60Hz, 3-Phase (5-wire), 45A/ 30 kW Peak Draw
Yes
1500°C

