

AGF Defcom

DMLS Metal 3D Printing & 5-Axis CNC Finish | Imperial, PA

AGF Defcom is a U.S.-based DMLS additive metal manufacturer purpose-built for firearms and defense. Over 20 EOS printers, in-house vacuum furnaces, and 5-axis CNC finish machining — from DfAM review through build, heat treat, and final inspection. FFL/SOT licensed for NFA-regulated suppressor programs.



DfAM Review	Build & Depowder	Heat Treat	5-Axis CNC Finish
<ul style="list-style-type: none"> ● Wall thickness & support review ● Alloy selection & orientation ● Tolerance strategy (print vs CNC) ● Suppressor baffle & bore strategy ● Catches issues before build 	<ul style="list-style-type: none"> ● 20+ EOS printers (M400/M300) ● Build vol to 400x400x400 mm ● EOS M290 for prototypes ● Layer thickness 20–80 µm ● In-house depowder & EDM removal 	<ul style="list-style-type: none"> ● 2 in-house vacuum furnaces ● Stress relief per alloy/geometry ● Heat treat to strength targets ● Media blast & tumble prep ● No outside processing delays 	<ul style="list-style-type: none"> ● Critical bores & threads to print ● Sealing faces machined to tol. ● Thin-wall & tube fixturing ● FAI & Cert of Compliance ● Parts delivered complete to print

SPECIFICATIONS

Primary Process	DMLS (Direct Metal Laser Sintering) with EOS production systems + 5-axis CNC finish machining
Build Volumes	M400: 400x400x400 mm. M300: 300x300x300 mm. M290: 250x250x325 mm (prototypes).
Alloys	17-4 PH, Ti-6Al-4V, Inconel 625, Inconel 718, Haynes alloys. Others on request.
Tolerances	As-printed ±0.001" on small features. Critical features finished via 5-axis CNC to print.
Surface Finish	As-printed ~Ra 200–400 µin. Machined faces Ra 32 µin or finer on request.
Post-Processing	Depowder, EDM removal, stress relief, heat treat, media blast, 5-axis CNC, final inspection
Volumes	Prototype through bridge through production. Repeat programs supported.
QA / Docs	FAI, Certificate of Compliance, lot traceability per program requirements

EQUIPMENT

- 20+ EOS DMLS Printers
- EOS M400 & M300 (production)
- EOS M290 (prototypes)
- 2 Vacuum Furnaces (in-house)
- 5-Axis CNC Machining Centers

MARKETS SERVED

- Suppressors & NFA Items
- Firearms & Defense Hardware
- Industrial & Energy
- R&D & Prototype Programs
- Aerospace Components

FULL IN-HOUSE CAPABILITY

- DfAM Review
- DMLS Build
- Depowder & EDM
- Stress Relief
- Heat Treat
- Media Blast
- 5-Axis CNC
- Final Inspection
- FAI & Docs
- Production Packaging

