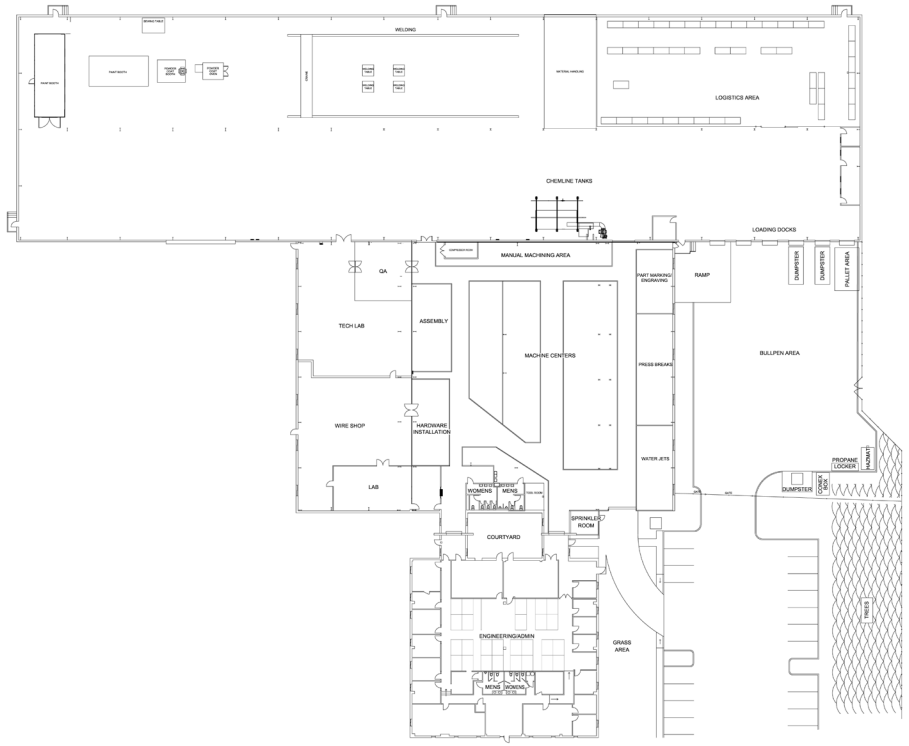


RAPID REACTION PROTOTYPING. BUILD TO PRINT.
FABRICATION & MANUFACTURING SERVICES.



43880 COMMERCE AVE.
HOLLYWOOD, MD 20636
1/32" = 1'-0"

Our Engineering & Fabrication Facility brings together design engineering, manufacturing, rapid prototyping, and production under one roof. Primarily supporting the Department of War, our team of cleared individuals offers expertise across technical disciplines, including manufacturing, analysis, engineering, and program support.

- With large integration areas and high-bay access, our 100,000 sq ft can handle a wide range of system sizes while also supporting depot-level refurbishment and repair.
- We are AS9100D registered, ISO9001 registered, and meet D17.1 specifications.
- From system definition and design to full-rate production, our Rapid Reaction Prototyping capability support the full lifecycle of complex systems.
- We provide build-to-print manufacturing, systems and software engineering, development, test, and evaluation.

MANUFACTURING

AETHER aerospace

Innovate. Develop. Deliver.

AetherAero.com Hampton Roads, VA | Huntsville, AL | Pax River, MD | Nashua, NH | San Diego, CA

Our capabilities span the E&F lifecycle:

Welding

Our 40 years of welding experience combined with our 10 years of Aerospace welding more than meets the D17.1 specifications. That same experience can be applied to other welding specifications, if required. Our current certifications:

- D1.1: 1/8" to 3/4" Mild Steel (FCAW)
- D1.2: 1/8 to 1" Aluminum (GTAW)
- D1.6: .034" to 3/4" Stainless (GTAW)
- D17.1: 1/16" to 375" Aluminum (GTAW)
- D17.1: .02" TO .08" 17-7PH (GTAW)
- D17.1: .02" TO .08" INCONEL 718 (GTAW)
- D17.1: .1675 TO 1" Mild Steel (GMAW-SPRAY)
- D17.1: .67" to Unlimited Mild Steel (GMAW-SPRAY)
- D17.1: .1675" to 1" Mild Steel (GMAW-SPRAY)
- D1.1: 1/8" to Unlimited 4130 (GTAW)
- D1.1: Unlimited 1018 (GTAW)
- D1.2: 1/16" to 1/8" Aluminum (GTAW)
- D17.1: .034" to .200" Aluminum (GTAW)
- D17.1: .036" to .061" 304 Stainless (GTAW)
- D1.1: .125" to Unlimited Mild Steel (GMAW-SPRAY
- CWI (Certified Welding Inspector) on staff

Electro-Mechanical

- Epilog Fusion 30-watt Fiber Laser Engraver 30"x 20" work area
- Boss 100-watt CO2 Laser Engraver with a 48"x 48" cutting area
- Omtech 100-watt Fiber Laser Engraver

Full-Lifecycle Management

- Prototype
- Design
- Engineering
- Fabrication
- 3/4/5-Axis Machining
- Electrical Fabrication
- Test & Evaluation
- Field Maintenance and refurbishments
- Rapid Procurement and Logistics (ILS)

Electrical

- IPC J-STD-001 Certified IPC Specialist (CIS}
- IPC 610 & 620 Certified IPC Specialist (CIS)
- Build-to-specification and/or build-to-print capabilities for wire and cables.
- Semi-rigid and flexible RF cable assemblies.
- Mil-Spec Connectors: 038999 series I, II, and III; M26482,
- M26482 SERIESS II, M5015, D-Sub and Micro-D Connectors.
- IPC J-STD-OOlFS Space Hardware Addendum Certified IPC.
- Specialist (CIS): Module 6: Space Hardware Addendum. IPC
- J-STD-001 Certified IPC Specialist (CIS) Operator Recertification.
- MIL-STD-1553 connectors fabrication/testing etc.
- Fiber assemblies LC, ST, FC, MTRJ, SC. MIL SPEC TFOCA II and ST TERMINI Wire Marking

CNC Capabilities

- (1) Omax 80X Waterjet (6' x 13' Cutting Area)
- (1) Omax 55100 Waterjet (4' x 8' Cutting Area)
- (3) Haas VF2ss - 3 Axis CNC Mill
- (1) Haas VF3 - 3 Axis CNC Mill (50 Taper)
- (1) Haas VF3SSYT - 3 Axis CNC Mill (Extended Y Travel)
- (1) Haas VF4ss - 4 Axis CNC Mill
- (1) Haas VF5ss - 3 Axis CNC Mill
- (1) Haas VF8 - 3 Axis CNC Mill (72" X-Travel)
- (1) Haas VF9 - 3 Axis CNC Mill (84" X-Travel)
- (1) Haas ST30Y - Live Tool CNC Lathe
- (1) Haas UMC750 - 5 axis CNC Mill
- (2) Haas UMC1000ss - 5 axis CNC Mill
- (2) Clausing - 15" Manual Lathes
- (1) Clausing - 21" Manual Lathe
- Multiple Manual Bridgeport Machines
- Amada 10ft - 140 ton Pressbrake
- Bystronic 10ft - 100 ton Pressbrake
- CAMaster Stinger 5 x 10ft CNC Router Table)
- Doosan Puma MX2100ST – X-25.6"/Y-9.8"/Z-43.1"

Painting/Finishing

- MIL-DTL-5541F Type 1 and Type 2 chemical conversion coatings
- Powder coating with 9'x 9'x 20' powder coat oven
- CARC paint, two-part epoxy paint, and primers
- 15' x 39' OSHA approved Paint booth, HVLP paint guns
- Large and Small Media Blasting/Tumbling

7.5 Ton Gantry-style Crane

- 30ft span, 23' height, 160' travel length

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For more information, contact:

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