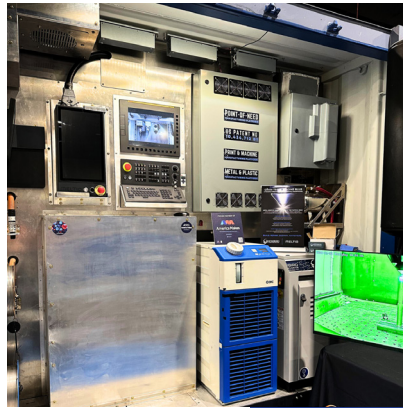
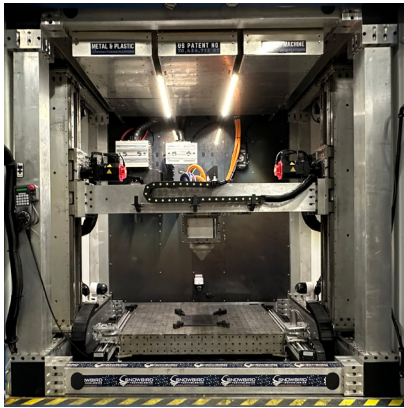




FABRICATE & MACHINE REPAIR, REPLACEMENT, AND PROTOTYPE PARTS AT THE POINT-OF-NEED

PRINT PARTS IN METAL OR PLASTIC ANYWHERE.

The Snowbird Additive Mobile Manufacturing Technology platform (SAMM Tech) is a cutting-edge, fully integrated advanced manufacturing system designed for expeditionary use. Housed within a compact 10-foot MILVAN shipping container, SAMM Tech combines additive and subtractive manufacturing capabilities to deliver on-demand repair, replacement, and prototype production directly at the point of need. The latest SAMM Tech model integrates advanced hybrid material capabilities, enabling fabrication in both metal and plastic. Its modular, portable design and robust construction enable operations in extreme environments, both on land and at sea, while remaining compatible with existing logistics infrastructure for global mobility.



KEY CAPABILITIES

DUAL MANUFACTURING MODES

Equipped with a Meltio Engine Blue laser-wire directed energy deposition (LW-DED) system for 3D printing using materials like stainless steel, carbon steel, nickel, titanium, aluminum, and copper-based alloys, alongside a fully integrated multi-axis CNC machining system for finishing, milling, and polishing within the same unit. The newest SAMM Tech model also features a Slice Engineering plastic extruder to make parts in PLA and TPU in the same printing system.

ADVANCED FEATURES

Includes a multi-axis machining capability, automatic tool and head changers, dual wire and/or filament feeders, and dedicated software for seamless CAD/CAM integration. System uses water cooled machining spindles and high volume compressed air process cooling.

HIGH PRODUCTION CAPACITY

A large print area supported by an adjustable print bed and patented gantry system (single or dual).

EXPEDITIONARY ADVANTAGE

SAMM Tech's modularity and self-contained design make it uniquely suited for forward-deployed manufacturing scenarios, enabling operators to produce components rapidly without reliance on external resources. The platform eliminates the need for auxiliary post-processing equipment, reducing logistical burdens and accelerating mission sustainment capabilities.

APPLICATIONS

STOCK MANAGEMENT FOR SPARE PARTS

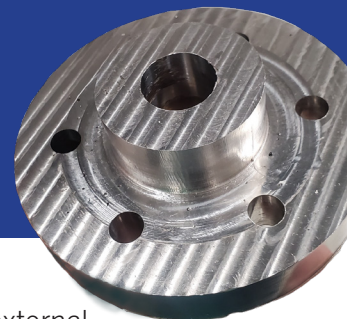
The ability to produce critical spare parts directly at remote operating sites reduces reliance on traditional supply chains, ensuring mission readiness and equipment uptime.

PROTOTYPE AND TEMPLATE MANUFACTURING

Custom tools and equipment can be designed and fabricated onsite, allowing operators to create mission-specific solutions tailored to their needs.

BUILDING SUPPLY CHAIN RESILIENCE

By reducing dependence on external suppliers, hybrid manufacturing supports sustained operations in geographically isolated locations, minimizing logistical constraints.



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BUILD. REPAIR. SUSTAIN. ANYWHERE.

SPECIFICATIONS | MODEL SAMM-DM010S-5AM

- 3ft x 3.5ft x 3.3ft (1m x 1m x 1m) production area
- 3-axis printing and 5-axis machining
- Heated high capacity print bed for metal and plastic printing
- Patented gantry system
- Modular tool magazines available
- Automatic tool and head changer
- Plastic and composite filament extruder
- Meltio DED with dual wire feeders and hot wire
- Slice Engineering Mosquito Prime print head
- Onboard CAD/CAM software available
- High volume cold air spray cooling for machining processes
- FANUC control system and software
- Water cooled 2-axis machining spindle



ENABLING TECHNOLOGIES

SAMM Tech is designed to integrate seamlessly with a wide range of enabling technologies, allowing end-users to tailor the system to their specific application needs. Through partnerships with industry-leading developers in 3D printing, scanning, machining, software development, AI-driven logistics planning, and digital training and maintenance solutions, users can enhance and scale their units to deliver exceptional performance and exceed operational expectations in the field.

MATERIAL COMPATIBILITY

Integrated with the Meltio Engine Blue and Slice Engineering Mosquito Prime 3D print extruders and engines, SAMM Tech can produce parts in the following materials:

METALS

- Stainless Steel | 316L, 308L, 17-4PH
- Mild Steel | ER70-S
- Nickel | 625, 718
- Tool Steel | H11
- Titanium | 64
- Invar
- Marine Bronze | ErCuNiAl
- Copper Chromium Zirconium | CuCrZr
- Aluminum | 4046

PLASTICS/COMPOSITES

- Acrylonitrile Butadiene Styrene | ABS
- Thermoplastic Polyurethane | TPU
- Polyethylene Terephthalate Glycol | PETG
- Polyactic Acid | PLA

