POINT-OF-NEED
RAPID PARTS MANUFACTURING

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.

PRINT AND MACHINE IN METAL:

- Stainless Steel | 310S, 316L-308L, 17-4PH
- Mild Steel | ER70S
- Tool Steel | H11
- Titanium | 64* **under development*
- Inconel | 718, 625

PRINT AND MACHINE IN PLASTIC/COMPOSITE:

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

+ **More**

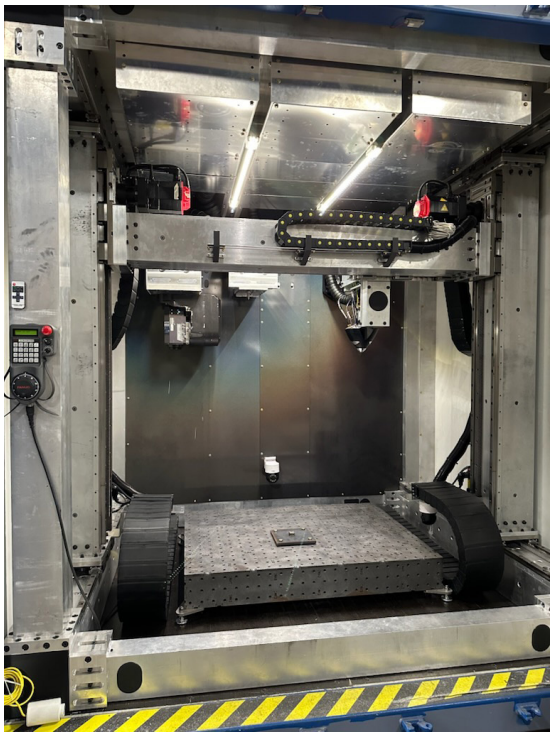
SNOWBIRD TECHNOLOGIES

WWW.SNOWBIRDTECH.COM

KEY CAPABILITIES

DUAL MANUFACTURING MODES

Equipped with a **Meltio** M450 laser-wire directed energy deposition (LW-DED) system for 3D printing using materials like **stainless steel, mild steel, tool steel, Inconel, and titanium**, 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.

By combining versatility, precision, and mobility, SAMM Tech establishes itself as a revolutionary tool for modern advanced manufacturing, offering unmatched performance for military, maritime, and industrial applications.

SPECIFICATIONS | MODEL SAMM-DM010S-5AM

- 3ft x 3.5ft x 3.3ft 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