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 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).

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.

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.

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