



Rapid

ADDITIVE MANUFACTURING LAB

SIMBA Chain/ITAMCO's Rapid Additive Manufacturing Lab will bring unprecedented additive manufacturing capability to forward deployed military units and front-line relief organizations. These self-contained labs would allow on-site printing of necessary parts and allow development of prototype equipment in hours, not days.



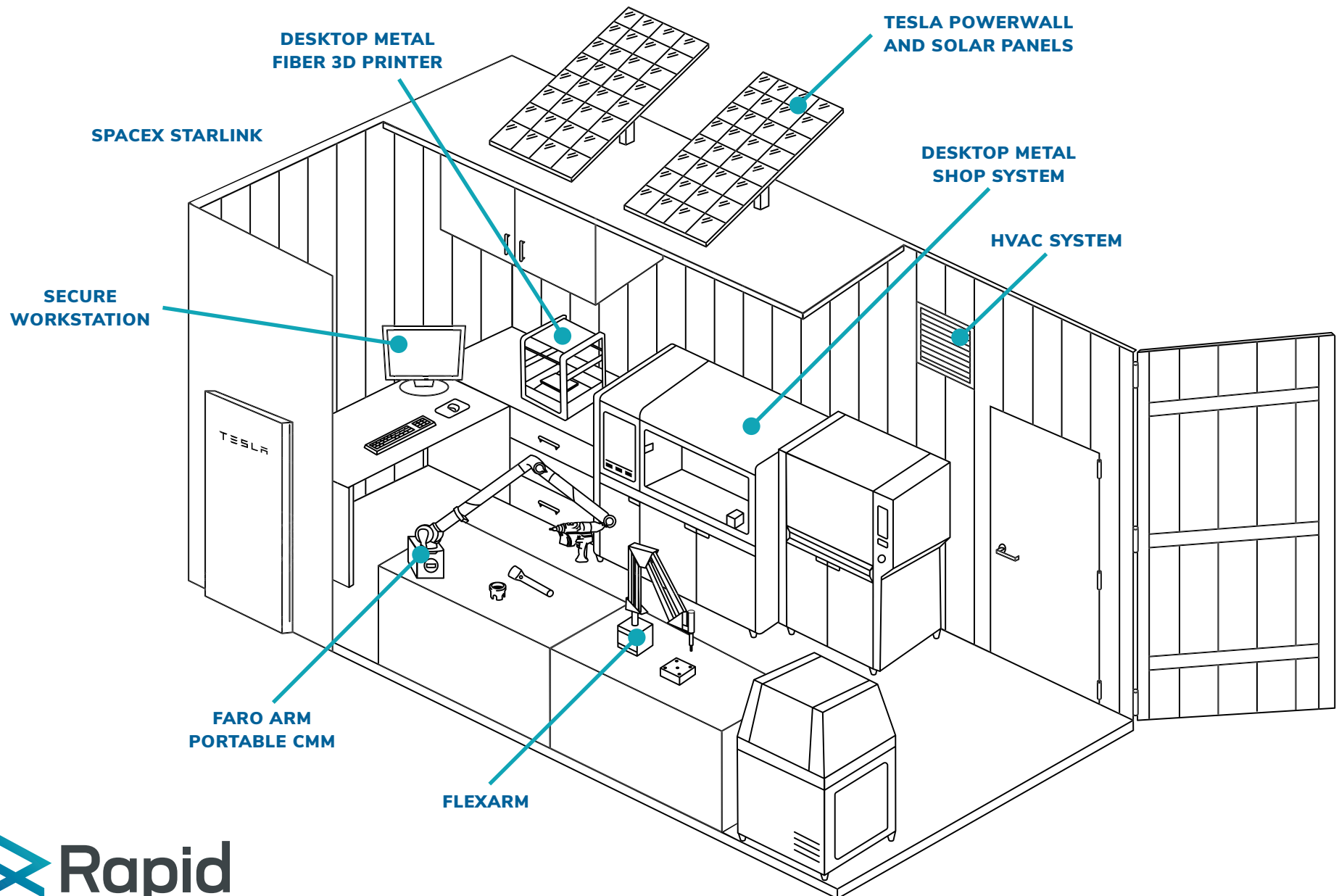
SIMBA Chain/ITAMCO's Rapid Additive Manufacturing Lab is a 20- or 40-foot mobile container equipped with a self-contained 3D manufacturing facility geared for the military and extreme environments.

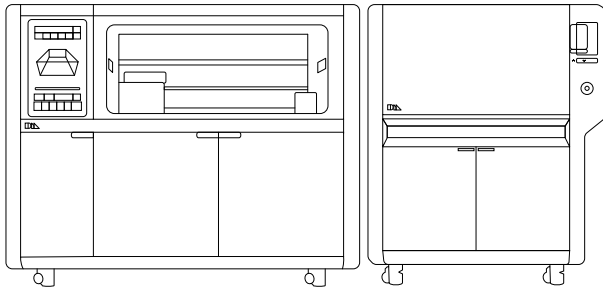
The lab includes all the components and resources necessary for additive manufacturing. Teams can print metal and fiber parts, perform final machining, and measure and inspect finished products.

Solar panels will provide power to the lab, and the built-in HVAC will ensure the necessary environment to create and build.

SpaceX will provide the Internet and communications connection through their StarLink satellite system. To ensure security, SIMBA Chain will develop a Blockchain-based platform to secure prints, part design, encrypt communications, and provide a user interface to easily access and print critical parts.







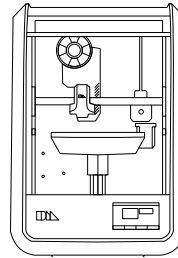
Desktop Metal
SHOP SYSTEM

Desktop Metal's Shop System is the world's first metal binder jetting system designed for production. The system is 10x faster and produces parts with superior surface finish and resolution versus laser-based systems.



MATERIALS

- 17-4 stainless steel
- 316L stainless steel
- H13 tool steel
- 4140
- Alloy 625 – Coming Soon
- Copper – Coming Soon



Desktop Metal
FIBER 3D PRINTER

Fiber™ combines the performance of continuous fiber with the ease of fused filament fabrication printing. Fiber produces high-performance parts that are strong, lighter than aluminum, and can operate in the tough environments.

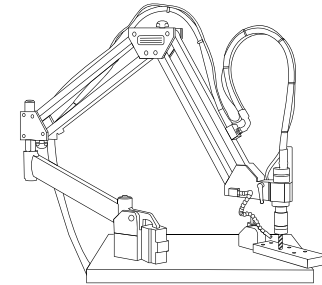


MATERIALS

- PEKK + Carbon Fiber
- PEEK + Carbon Fiber
- Nylon 6 (PA6) + Carbon Fiber
- Nylon 6 (PA6)+ Fiberglass

MATERIAL FORMAT

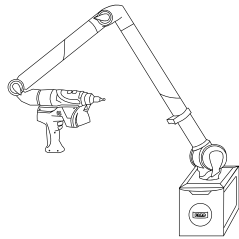
- Continuous fiber tape
- Chopped fiber filament



FlexArm
FLEXARM

The installed FlexArm will allow post-processing. It offers unparalleled machining mobility and flexibility while maintaining precision. This arm will assist with tapping, part manipulation, assembly, and die grinding.





FARO

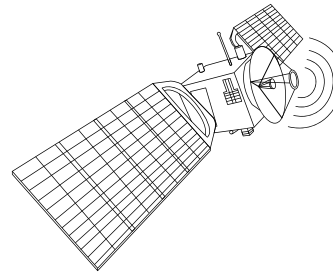
FAROARM PORTABLE CMM

FaroArm is a portable CMM for any application and provides maximum consistency and reliability. FaroArm's perform in a wide range of work environments including extreme temperatures, shop floors, and mobile environments.



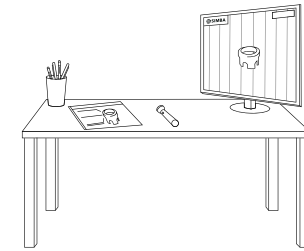
CAPABILITIES

- 8-Axis Arm
- Size – 4 Meter
- ISO 10360-12 Certified
- ISO 10360-8 Annex D Certified
- Hot-Swappable Batteries
- WiFi/Bluetooth



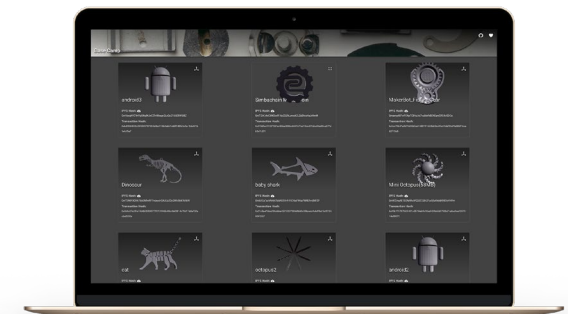
SPACEX STARLINK

Starlink is a satellite constellation being constructed by American company SpaceX to provide satellite Internet access. The constellation will consist of thousands of mass-produced small satellites, working in combination with ground transceivers.



SECURE WORKSTATION

Powerful workstations allow engineers to design, model, print, and manage production. The lab also securely stores files on a Blockchain, and allows anyone with authorization to quickly access and print secure design files.





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