Statement of Need

Specification- Document | Salient Characteristics

Selective Laser Sintering System Printer

Objective – The point defense Battle lab has been tasked to create a maker space to produce tier 1-3 sUAS FY2026. The PDBL seeks an SLS printer

Place of Delivery – Building 42, 57330 Mustang Drive, McConnell AFB, KS 67221.

Electrical/Power Requirements – 30W / 120V

Product Requirements

Salient Characteristics:

Line Item 1: Selective Laser Sintering System

1. Support-Free Printing
2. Produce parts mirroring durability and performance of injection-molded plastics
3. Nesting (High Productivity production)
4. Utilize durable materials like Nylon (PA11/PA12)
5. Produce finished surfaces
6. Bioenvironmental consideration in filtration
7. Cleaning stations to transition product to completion
8. Polishing System
9. Excess recycler
10. Transfer cases to move product
11. Material to include:
    - 12kg - Nylon 11, (Option)
    - 12kg - TPU 90A, (Option)
    - 1 Pack of 100 – Optical Cleaning cloths
    - Air Filters
        - Air Intake Filter 10 EA
        - Air Exhaust Filter 10 EA
        - Fuse Sift Air Filter 10 EA