



A K.R.A.K.E.N CORPS LLC COMPANY

Silent Service 3D Printing, LLC

Pride runs deep. Every service, every time.

CAPABILITY STATEMENT

SDVOSB

U.S. DOD VENDOR

CMMC 2.0 & ISO 9001 IN PROGRESS

COMPANY OVERVIEW

Silent Service 3D Printing, LLC (S23D) is a service-disabled veteran-owned small business and a vital part of the K.R.A.K.E.N Corps. We specialize in large-format additive manufacturing, rapid prototyping, and high-resolution 3D scanning for commercial, industrial, private, and government clients. As a **U.S. Department of Defense vendor**, S23D delivers high-precision, mission-critical components for aerospace, defense, space, and motorsports, including Formula 1 teams. Guided by integrity and excellence, we provide reliable, cost-effective solutions that consistently exceed client expectations.

CORE CAPABILITIES

- ✓ Large-Format 3D Printing
- ✓ Rapid Prototyping
- ✓ 3D Scanning & Reverse Engineering
- ✓ Post-Processing for Multiple Finishes & Colors
- ✓ CNC Machining & Laser Cutting
- ✓ AM Equipment Maintenance, Repair & Setup
- ✓ Metal 3D Printing
- ✓ Fully Customizable & Operational Parts & Prototypes
- ✓ Custom & Low-Volume Manufacturing
- ✓ Silicone / Molding Services
- ✓ CAD & Design Services
- ✓ Titanium & Steel Landing Gear Systems

DIFFERENTIATORS

Veteran Expertise and Commitment: As a Service-Disabled Veteran-Owned Small Business (SDVOSB), S23D brings a disciplined approach to additive manufacturing, backed by 12 years of hands-on industry experience.

Leadership in Innovation: S23D serves as the chair for additive manufacturing in the Arizona Tech Council, helping drive industry advancements and best practices.

Defense and Aerospace Track Record: A trusted DoD vendor with proven success delivering mission-critical work for the aviation and space industries.

Comprehensive Material Proficiency: Design and production across an extensive range of polymers, composites, and metals, from Nylon and PEEK to aluminum, medical-grade steels, and titanium.

Integrated Workflow: Scanning, CAD design, prototyping, and manufacturing handled under one roof for faster turnaround and tighter precision.

COMPANY DATA

UEI	TNPMVJFTNMF4
CAGE	9GN11
DUNS	130708582
Status	SDVOSB
Quality	ISO 9001 certification in progress
Cyber	CMMC 2.0 certification in progress

NAICS CODES

325199	325211	325220
326122	326299	332913
333248	335132	335991
336413	336415	336992
337920	339112	339995
424610	541410	541490
541715		



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CAPABILITY STATEMENT

Detailed Capabilities

SERVICES & SPECIFICATIONS

PROCESS	MATERIALS	FINISHES	TOLERANCE	MAX PART SIZE
ADDITIVE MANUFACTURING				
FDM Fused Deposition Modeling	PLA, ABS, PETG, TPU	Raw, Polished	±0.5% (min ±0.5 mm)	72 × 48 × 72 in 1829 × 1219 × 1829 mm
SLA Stereolithography	Standard resin, Tough resin	Sandblasted, Polished	±0.2% (min ±0.2 mm)	11.8 × 11.8 × 11.8 in 300 × 300 × 300 mm
SLS Selective Laser Sintering	Nylon PA12, TPU	Raw, Dyed	±0.3% (min ±0.3 mm) TPU: per quote	27.5 × 15 × 22.8 in 700 × 380 × 580 mm
MJF Multi Jet Fusion	MJF Nylon	Raw, Polished	±0.3% (min ±0.3 mm)	15 × 11.2 × 15 in 380 × 284 × 380 mm
Metal Printing	Stainless Steel, Titanium	Sandblasted, Polished	±0.3% (min ±0.3 mm) Titanium: ±0.2% (min ±0.2 mm)	9.8 × 9.8 × 12.8 in 250 × 250 × 325 mm
TRADITIONAL MANUFACTURING				
CNC Machining	Aluminum, Steel, Titanium	Anodized, Polished	±0.2% (min ±0.13 mm)	78.7 × 31.5 × 39.4 in 2000 × 800 × 1000 mm
Laser Cutting	Steel, Aluminum, Brass	Raw, Polished	Per quote	118 × 59 in 3000 × 1500 mm

Tolerances are typical values and depend on part geometry, orientation, and size. Final tolerances are confirmed with each quote.

DETAILED CAPABILITIES

01 Large-Format 3D Printing

- High-precision aerodynamic components, body panels, and structural parts.
- Large-scale parts in a single piece or in modular sections.

02 Rapid Prototyping

- Accelerated design-to-production timelines with iterative refinement.
- Functional prototypes for wind tunnel testing and on-track validation.

03 3D Scanning & Reverse Engineering

- High-resolution scanning of complex geometries and legacy parts.
- Dimensional analysis for precision and FI regulatory compliance.

04 Custom Manufacturing

- Bespoke components for FI cars, aircraft, and spacecraft.
- Hybrid 3D printing with traditional methods; low-volume production.

05 Repair & Support

- Rapid part repair, custom molds, silicone molding, and jigs.
- Maintenance, repair, and setup of additive manufacturing equipment.

06 Aerospace, Defense & Space

- Titanium and steel landing gear systems for aircraft.
- Full-scale models and functional products for the space industry.

MATERIALS

PLA	ABS	PETG	TPU	Nylon PA12	MJF Nylon
PEEK	SLA Resins	Carbon Fiber Composites	Rubber		
Aluminum	Brass	Stainless Steel			
Medical-Grade Steels	Titanium				

INDUSTRIES SERVED

Defense	Aviation	Space	Motorsports / Formula 1
Medical Devices	Industrial	Commercial	
Private Clients			