

# Manufacturing

Machining, Assembly, Test, and Program Management



Sidus Space delivers precision-engineered hardware solutions for complex design, production, and testing needs. From component manufacturing to full system assembly, our team supports advanced mission planning with unmatched quality and reliability.

With over a decade of proven heritage in government, commercial, and space programs, we bring deep expertise in hardware and software development, testing, and certification, ensuring mission success from concept to launch.

## Key Benefits

- » **Advanced Manufacturing Capabilities** - Precision machining, 3–5 axis milling, EDM, Swiss turning, AWS-certified welding, CMM/VCMM inspection, composite and metal 3D printing, and waterjet cutting
- » **Program Management Expertise** - Full-spectrum support including requirements compliance, logistics, configuration management, scheduling, budgeting, and supply chain coordination
- » **Software Proficiency** - Skilled in Mastercam, Featurecam, Partmaker, SolidWorks, and PC-DMIS (CMM) for efficient design-to-production workflows
- » **State-of-the-Art Facilities** - 35,000 sq. ft. manufacturing space, 900 sq. ft. Class-8 cleanroom, and full-stack space services with mission control capabilities

## Capabilities

### Precision Machining

- » 3, 4, 5-Axis Milling
- » 4-Axis EDM
- » 5-Axis Mill Turning
- » 7-Axis Swiss Turning
- » AWS Certified Welding
- » CMM, VCMM Quality Inspection
- » Composite and Metal 3D Printing
- » Waterjet Cutting

### Program Management

- » Customer Requirement Compliance
- » Logistics and Configuration Management
- » Schedule, Resource, and Budget Control
- » Supply Chain Management



## Heritage



AIRBUS



JACOBS



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## Machine Model Specifications

Machine Type	Model	X (in.)	Y (in.)	Z (in.)
3D printer	Markforged, X7	12.99	7.87	9.84
CMM	Brown & Sharpe Global Performance 9.12	35.4	47.5	31.5
CMM	Brown & Sharpe Mistral	28.3	28.3	19.7
EDM, Wire 4-Axis	Sodick AG600L	23.6	14.96	13.78
Lathe, CNC, 2-Axis	Okuma L400II-E	14	-	21
Lathe, CNC, 6-Axis	Okuma LB3000EX	13.39	+2.76 -1.77	26
Lathe, Manual	Hardinge HLV-	10	-	10
Lathe, Manual, Swing 24", 13" Gap	Clausing Mascot VS2000	13	-	32
Mill, CNC, 4-Axis - 2015	Kitamura 4XiF	40	20	20
Mill, CNC, 5-Axis - 2015	HAAS UMC-7509 (2-each)	30	20	20
Mill, 3-Axis	HAAS VF3	40	26	32
Mill, 4-Axis	Mazak 510C-II	40	20	20
Mill, Manual, Vertical, 3-Axis	Laguna	33	16	12
Swiss Screw Turn Center, CNC - 2016	Tsugami, 7-Axis (2-each)	1.25 Dia.	-	B Axis 12
VCMM	Micro Vu Vertex 251JC	10	6	6
Waterjet, 3-Axis, Tilt +/-9.0	Omax 80X	160	80	7

## Welding Model Specifications

Machine Type	Model	Description
Welder/Cutter (Oxy-acetylene)	Victor Journeyman 315C	-
Welder, GTAW	Miller Syncrowave 350LX	GTAW
Welder, Multi-process	Miller 350CC/CV	GMAW, SMAW
Welder, Water Cooled Resistant Spot	Miller SSW-2020ATT	-



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