

Collaborate with Us

Our **concept-to-completion** capabilities allow us to quickly respond to client needs and provide optimal solutions with **shorter turn-around times**.

Having all aspects of technology and engineering in one location allows for experience and knowledge to be shared among members during all stages of our projects.

About Us

The Technology Application Center (TAC) is a dedicated workspace for accelerating the development of products and solutions through collaboration, rapid prototyping and testing.

The facility contains collaboration space, robotics, a state-of-the-art machine shop, metal and plastic additive manufacturing, and NDE capabilities.

The TAC is cost-effective engineering that enables faster response, improves safety and productivity, and quickly verifies return on investment.



Technology Application Center

Machine Shop



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Machine Shop

The Technology Application Center houses a state-of-the-art machine shop that allows us to get your product out the door with a quick turn-around time. We have the latest technology in digital machining to ensure **precise and quick production**.



CNC Turning

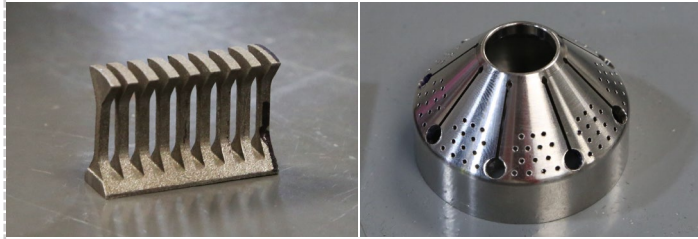
The Center houses a manual lathe, a small part lathe, and a large-scale CNC live tool lathe. These machines are used for turning cylindrical parts.

*Mazak Integrex i-200ST
Haas TL-2 CNC Lathe*

+GF+ CUT AM

The +GF+ CUT AM is designed to cut 3D printed parts from build plates with maximum speed. It is a purpose-built alternative to using a standard wire EDM.

Cut Volume: 510 x 510 x 510 mm



Electric Discharge Machining (EDM)

The sinker EDM is widely used for highly complex geometries and maintains tighter tolerances than traditional CNC machines.

The wire EDM can be used for thin-wall machining and cutting intricate and precise geometry.

Sinker EDM Travels: (X 15.7" Y 11.8" Z 11.8")

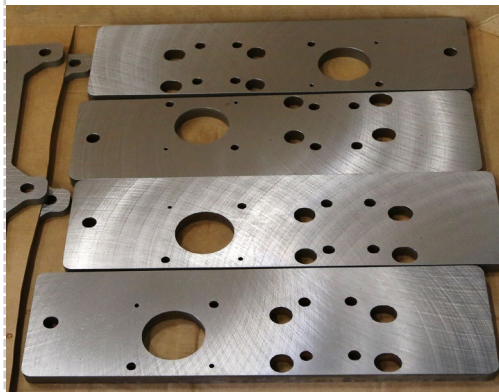
Wire EDM Travels: (X 23.6" Y 15.7" Z 12.2")

Tolerance up to tenths of thousandths of an inch

Waterjet Cutting

Utilizing the waterjet process, we can virtually cut any material. It is a cost-effective solution for plate manufacturing. Its speed and large format cutting make the waterjet a favorable option for industrial mounting plates, brackets, and basic fixtures.

*Table Size: 4 x 4ft
Cutting Depth: 7 inches*



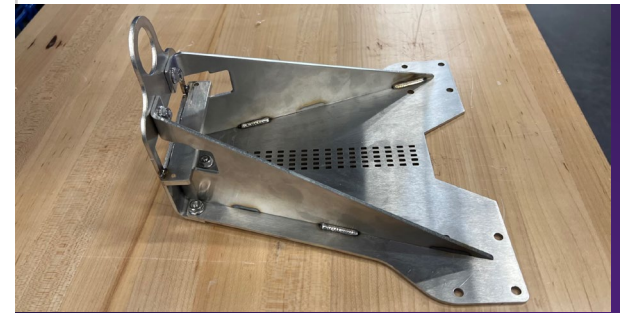
CNC Machining

Our machine shop holds 3-axis and 5-axis milling machines that can form designs from almost any metal alloy or engineered plastics like PEEK and Teflon.

We have 3-axis CNCs for simple parts and 5-axis CNCs to machine more complex geometries.

3-axis Travel Axis: (X 32.5" Y 19.7" Z 21.3")

5-axis Travel Axis: (X 24.8" Y 43.3" Z 23.6")



Sheet Metal Fabrication

Sheet metal fabrication is a valuable manufacturing process that allows us to turn thin metal sheets into robust functional parts such as panels, brackets, and enclosures. Sheet metal parts are favored by a wide range of industries including industrial, aerospace, robotics, and energy.

*Maximum Bend Length: 102.4"
Throat Depth: 17.72"*

Hybrid Manufacturing

By implementing a "Meltio" system into our 5-axis CNC we can perform subtractive and additive manufacturing in one machine. Through this technology we can print two materials and powder to create multi material parts in situ.