

# Engineering Excellence Delivering Quality Fabrication



## Precision Fabrication & Manufacturing Engineering Solutions

Specializing in prototype to small quantity production sizes, Exquadrum provides the complete spectrum of precision fabrication services, from engineering to delivered component. Exquadrum's engineers and machinists have the experience to understand complex manufacturing requirements and provide the lowest cost and lowest risk approach to successfully delivering critical components for our customer's demanding applications, including 4<sup>th</sup> and 5<sup>th</sup> axis machining. We are more than a "machine shop."

### Machine Tools and Sizes

#### Horizontal Mills (CNC)

- HAAS VF5: 60"x24"x22" (5th Axis)
- HAAS VF2SS: 38"x18"x14" (4th Axis)
- HAAS TM-1: 28"x12"x12"

#### Lathes (CNC)

- HAAS ST-35LY: 21" Ø x 72" (4th Axis)
- Mazak QT Nexus 200: 15" Ø x 22"

#### Electro Discharge Machining (EDM)

- Bed: 12"x24" / Throat (Z): 10"

#### Manual Equipment

- Engine Lathe: 16" Ø x 40"
- Grizzly Lathe with DRO: 18" Ø x 36" long
- Bridgeport Knee Mill with DRO: X"xY"xZ"
- Kent Surface Grinder: 6"x18" (mag chuck)
- Hypertherm PowerMAX 85 Plasma Cutter
- Lepel Induction Heater (7.5KW)
- Miller Syncrowave 250 (TiG)
- Lincoln Pro-MiG 175

### Materials

- Inconel (7XX/6XX)
- Titanium
- Stainless Steels (3XX/4XX)
- Aluminum (all grades)
- Carbon Steel (all grades)
- Copper & Copper Alloys
- Carbon & Silica Phenolic
- Graphite (all grades)
- Engineering Plastics



Exquadrum's engineers have experience developing fabrication specifications, issuing vendor RFPs, producing manufacturing cost estimates, and managing specialty fabrication vendors to deliver a full suite of fabricated components. This applies to castings, additive manufacturing, welding, and non-destructive evaluation.



Unlike a regular machine shop, Exquadrum provides a complete manufacturing engineering solution including 3D model to Y14.5 compliant fabrication drawing generation, engineering analysis, material recommendations, and cost/quantity analysis. Exquadrum uses the latest version of SolidWorks for design and manufacturing support.

### Inspection Capabilities

- Temperature controlled Inspection Room
- Optical Comparator (+/- .0002)
- Portable Surface Roughness (Mitutoyo)
- Wilson Hardness Tester (A & B scale)
- Granite tables (.0001 Flatness)
- Run out fixture (12" max length, +/- .0005)
- Gage Pin & Block Sets
- Standard Inspection Tools (+/- .0005)

### Our Customers

- |       |                 |
|-------|-----------------|
| USAF  | US Army         |
| MDA   | Jacobs Tech     |
| DTRA  | ASRC Federal    |
| DARPA | Virgin Galactic |
| NASA  | ERC, Inc        |

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[www.exquadrum.com](http://www.exquadrum.com)



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