

Equipment List

CNC Machining Centers

- (2) Haas Super VF-3 with 5th Axis
- (3) Mazak 410A with 4th Axis
- (2) Mazak 510C-II with 5th Axis
- (3) Mazak 510C with 4th Axis
- Mori Seiki MV-40
- Mori Seiki MV-40B
- Mori Seiki MV-500

CNC Turning Centers

- (2) Mori Seiki-SL-150MC
- Mori Seiki-SL-15000T
- Mori Seiki-SL154S
- (3) Mori Seiki-SL-150 CNC
- Mori Seiki-SL-15
- Daewoo Puma 4-3a
- Miyano JNC-35
- (3) Hardinge Chuckers
- Nardini Precision Engine lathe
- Star SB-16 Swiss Type
- (3) Star SB-16D Swiss Type
- Tsugami B520-III Super Swiss Turn
- Maier ML-26D Proline Swiss Type

Gun Drill

- El Dorado M30-15 Twin C (new) (hole sizes up to 5/16" and 12.5" in length)
- Dehoff DH-1036T Twin Spindle (hole sizes up to 1-1/8" and 36" in length)

Quality | Service | Innovation

- Dehoff DH-1036 Single Spindle (hole sizes up to 1-1/8" and 36" in length)
- (2) Sunnen Hone

Wire EDM

- (4) Brothers HS-70a
- Hole Master HM400
- Charmilles 310

Manual Milling

- (2) Haas TM1
- (4) Bridgeport Series I
- Sajo Horizontal

Heat Treating

- Cress Heat Treat Oven

Passivation

- Citric Passivation

Material Handling / Saw Department

- GROB Band Saw (manual)
- Amanda HA250W Autosaw
- Amanda 250 Autosaw
- Doall Band Saw (manual)
- ACM Abrasive Cut-off Saw

Finishing Department

- Mini Blaster
- (3) Glass Bead Blasters

- Sand Blaster
- Royson Centrifugal Tumbler (new)
- Scanlab Laser Etch

Inspection

- RAM Optical—Data Star
- RAM Optical—Sprint 250 Data Star
- (2) Mituoyo PH3500 Optical Companitors

CMM's

- Zeiss — USOFT SOFTWARE
- Numerex — USOFT SOFTWARE
- Check Master

Vision Systems

- RAM Optical—Data Star
- RAM Optical—Sprint (with touch probe)

Optical Comparator

- (4) Deltronics DH216 with mpc-5 read out
- Gage Master (with Mitutoyo Geocheck Readout)
- Wilson Hardness Tester

Software

- SolidWorks
- CAMWorks
- ProCAD/ProCAM II

In-house Production Services



- 3,4 & 5 axis CNC Milling
- CNC Turning
- Swiss Turning
- 7 axis Grinding
- Gun Drilling and Honing
- Wire EDM
- Laser Etching and Passivation

Quality | Service | Innovation

By covering all aspects of the production process in-house, we can track quality through the entire project, ensuring the highest level of precision and quality control. You'll benefit from the experience of highly qualified engineers and project managers combined with team members dedicated to providing superior service every step of the way.

CNC Machining, Grinding, Swiss Machining and Wire EDM

CNC turning, milling and grinding are the foundation of our operation. For years we have been investing in the latest CNC and Swiss style machining centers. Our 7 axis grinding equipment can provide you with custom form drills, taps, and reamers to your specifications. Our dedication to mastering new equipment has enabled us to increase efficiencies, meet deadlines and improve your bottom line.

Gun Drilling and Honing

We provide gun drilling, deep hole drilling, and honing in sizes from 1/8" to 1 1/8" diameter, up to 36 inches in length, straight within .001 inch. We offer close tolerance gun drilling in multiple shapes including circles, squares, rectangles and other configurations in a variety of metals.

Laser Etching and Passivation

We offer close tolerance laser etching and finishing application including: rotary axis marking, deep etch marking and customer defined graphics or logos. In addition to laser etching, we also provide full service cleaning, ultrasonic cleaning & passivation of all stainless metals.

METAL CRAFT

ISO 13485 & 9001
800.964.1395
www.metal-craft.com

Medical Device & Implant Manufacturing



- **Standard ISO 9001: 2000**
- **Standard ISO 13485: 2003**
- **Full compliance with FDA and CGMP regulations**

Metal Craft's 30 years of experience in the medical device and implant industry has earned us a reputation for precision work from start to finish. We cover all aspects of the production process in-house, so we can track quality through the entire project, ensuring the highest level of precision and quality assurance.

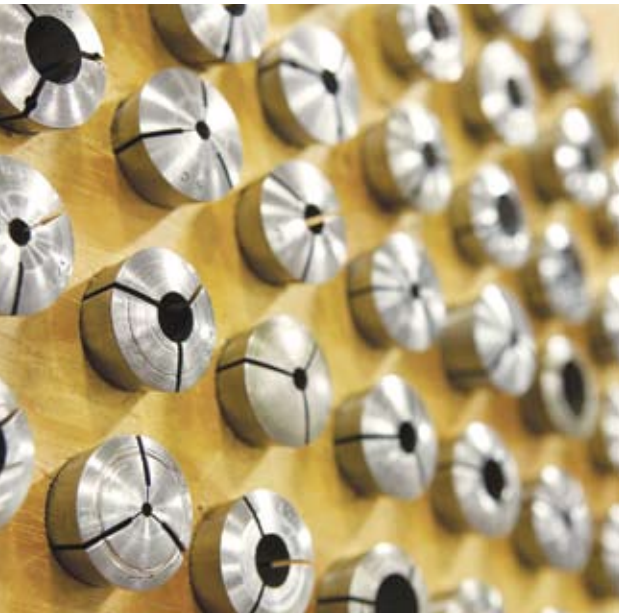
Our capabilities range from very fine precision instruments and complex assemblies to larger tools, replacement joints, and implants.

Quality | Service | Innovation

METAL CRAFT

ISO 13485 & 9001
800.964.1395
www.metal-craft.com

Complex Assembly



- **Multi-level assembly capabilities**
- **Improved quality control**
- **Years of assembly experience**
- **Partnering to go beyond fulfilling requirements, to improve form, fit and function**

Quality | Service | Innovation

While many machine shops look to outside vendors for complex assembly, we have the means to see your project through to completion, in-house.

Your complex parts are manufactured and engineered by one trusted company with over 30 years of experience.

Our engineers, assembly managers and inspectors work together to ensure functionality and usability at every step of manufacturing through final assembly and testing.

METAL CRAFT

ISO 13485 & 9001
800.964.1395
www.metal-craft.com

Quality Management & In-house Inspection



Quality Systems

- ISO 9001:2000
- ISO 13485:2003
- 5S Program
- Lean Manufacturing
- GMP Compliant

Quality | Service | Innovation

Quality Management Systems

You'll find that a commitment to quality is at the core of our mission at Metal Craft from top management through every facet of the company. And, our dedication to quality shows through the many certifications and management processes we keep in place to ensure superiority. Your product is carefully monitored throughout the manufacturing process using our custom Quality Characteristic Control (QCC) system.

Complete In-house Inspection

Quality is central to our mission at Metal Craft, and our in-house inspection department is a critical part of the production team. Years of experience performing inspections means your parts won't leave our building unless they are machined to your specifications, and meet our even higher level of quality demands.

METAL CRAFT

ISO 13485 & 9001
800.964.1395
www.metal-craft.com

Project Management & Prototyping Services



Project Management and Fulfillment

Project management begins with a knowledgeable account manager who guides your project from quote through delivery. All of our account managers have worked in the field, and bring their hands-on experience to work for you. Our management philosophy is one of partnership, working closely with you to get the job done, including 24-hour online access to the status of your project.

Prototyping Services

Because you need a quick turn-around on precision prototypes, we've developed the Prototype Action Response Team (PART) to look at your drawings and specifications, listen to your goals and ideas and develop a prototype to your specification. We'll work with your engineering staff to improve cost effectiveness and manufacturability.

Quality | Service | Innovation

METAL CRAFT

ISO 13485 & 9001
800.964.1395
www.metal-craft.com