

## SCOPE OF SERVICES

### EDM Department

RWI is a leader in the EDM (Electrical Discharge Machining) industry, and our dedicated team is ready to partner with you. Our full complement of machines from Agie Charmille, Current, and Mitsubishi consists of multiple Wire EDMs, Sinker EDMs, and CNC/Manual hole poppers.

Our Agie Vertex fine wire EDM can use wire as fine as .0008" diameter and is housed in its own dedicated, climate controlled room to support the manufacturing of extremely high precision parts.

RWI's EDM machines with small hole attachments can drill a hole as small as .002" diameter in hardened materials.

### EDM Machine Capabilities

**Fine Wire Size:** travel 8"x5.5"x3" – tank size 8.6"x6.3"x3.9"

**Wire EDM:** travel 21.5"x13.5"x16.0" – tank size 48"x29"

**Sinker EDM:** travel 19.7"x13.7"x12.0" – tank size 39"x28"

**Hole-Popper:** 0-10" Diameter x 20" Long, 0-28" Diameter, 30" Long



### CNC Lathe Department

RWI's CNC Lathe Department consists of state of the art multi-spindle, multi-axis equipment. From standard 3-Axis machines, and Swiss turning, we offer a solution for all your turning needs.

Our Okuma Multus B400W, a twin spindle horizontal lathe that incorporates an articulating head in place of a conventional turret, used for complete turning and milling operations. This machine is capable of complete "done-in-one" machining, reducing the need for multiple complex setups between work centers.

We also have an array of Swiss-style screw machines with capacity up to 25mm that are ideally suited for production runs.

### CNC Lathe Machine Capabilities

**Swiss Style Screw Machine:** 0-12mm, 0-20mm, 0-25mm

**Turn/Mill:** 0-28" Diameter x 60" Long, 0-10" Diameter, 10" Long

**Turn 4-Axis:** 0-10" Diameter x 20" Long, 0-28" Diameter x 30" Long



### CNC Mill Department

RWI has more than 40 years of CNC milling experience. With our wide variety of milling machines, including vertical, horizontal, 5-Axis, high speed and micro-mills, we are able to achieve extremely tight tolerances.

For most milled parts, dimensional accuracies of size 0.0002" and location 0.0005" or better are readily and routinely achieved. In the case of micro-milling, we routinely maintain sub-micron level tolerances.

Our two Matsuura MAM-72 5-Axis pallet CNC mills have a combined 72 pallets and 540 tools, optimized for lights-out production manufacturing.

### CNC Mill Machine Capabilities

**3-Axis:** up to 40"x80"x20", 15,000 rpm

**4-Axis Vertical Mills:** up to 10" diameter, 15,000 rpm

**5-Axis Vertical Mills:** up to 20" work envelope, 18,000 rpm

**4-Axis Horizontal Mills:** up to 20" work envelope, 20,000 rpm

**Roku Roku :** Graphite Milling Machine

**Laser Marking Technologies Cobalt GM** laser marking system



## SCOPE OF SERVICES

### Inspection Department

RWI's Inspection Department is a leader in the industry with modern inspection equipment to handle any metrology challenges. We maintain a state-of-the-art inspection facility and have a selection of contact and non-contact optical CMMs, from the most highly regarded metrology equipment manufacturers in the world.

Our four Zeiss Contura CMM have a working envelope of up to 34"x48"x24", with full contact scanning capability and accuracy of  $\pm 0.0017$ mm.

Our stringent standards and rigorous QC process allows us to perform any level of inspection our customers require, up to and including SPC data collection, as well as complete dimensional inspection of every part.

### Inspection Capabilities

**Micro-Vu Non-Contact** optical CMMs with accuracy of  $\pm 0.0025$ mm

**Keyence Non-Contact** production optical CMMs

**Zeiss Calypso** offline programming stations

Precision hard and air gaging to within 0.00005"

Detailed measurement reporting

SPC and Gage R&R analysis

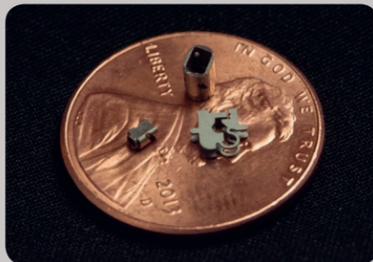


### Prototype Development Capabilities

RWI's staff is ready to assist with the development of your concept, or to improve the manufacturability of an existing product.

We can help determine the best manufacturing processes to ensure the success of your project. Because we are a small business, we have the ability to focus on detailed requirements, and approach each challenge with the attention deserved for innovation. Our team can work one-on-one with customers to brainstorm, hypothesize, and create new and pioneering methods for manufacturing.

Our manufacturing and quality assurance teams work closely with one another, collaborating to determine the metrics to use in order to measure the quality and performance of your products.



### Materials

RWI works with a wide variety of materials, including those that are exotic and hard to machine.

In addition to manufacturing parts from "run-of-the-mill" metals, such as alloys of aluminum and stainless steel, RWI has earned recognition for our skill in manufacturing parts from materials such as tungsten, titanium, molybdenum, tantalum, magnesium, glidcop, and OFE copper.

RWI routinely manufactures parts from Nylon, G-10, Polycarbonate, Delrin, and PVC. We also have considerable expertise in manufacturing from more exotic plastics such as PEEK, UHMW, Torlon, and Rulon. When applicable, RWI complies with the Conflict Minerals Disclosure Act.

