

Precision Machining since 1967







### **Put Our Experience to Work for You**

At RPM, our focus is precision grinding, machining and finishing of close tolerance tooling.

Our combination of skilled craftsmen and engineers, as well as state-of-the-art technologies and process controls, enables us to take on challenging projects and produce top-quality precision machining in a highly-efficient manner.

Today, leaders in the aerospace, automotive, fastener and metal container market segments rely on RPM's quality and dependable services.

RPM Certified To ISO 9001 Current Level.





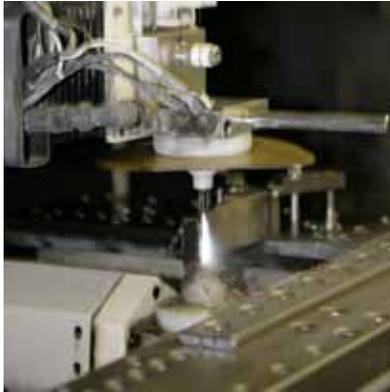
## **Core Capabilities**

At the core of our operation are grinding, turning and milling capabilities.

CNC or Computer Numerical Control grinding operations are performed daily for our customers. The latest advancements in technology are used to continuously expand our capabilities. For example, contour grinding has become feasible with CNC grinders.

Hard turning delivers tolerances and surface finishes that can reduce or even eliminate the need for grinding. Hard turning can also serve as a pre-finishing operation for extremely tight-tolerance jobs.

With hard milling, the concept of high speed machining goes to the next level. A combination of light cuts at high feed rates and spindle speeds makes it possible to remove steel in the hardened state more efficiently. The hard milling process often replaces many subsequent and costly machining steps.



### **Electrical Discharge Machining**

RPM also specializes in EDM (electrical discharge machining). Wire EDM utilizes an electrically charged wire to cut precision shapes in prismatic components. This process allows for not only very exacting cuts but also specific corners and tapers that would be virtually impossible otherwise. Plunge EDM uses a charged electrode to drill microfine cavities and complex shapes in hard-to-machine metals.

### **Inspection**

RPM utilizes a CNC CMM gage as a stand-alone, walk-up station for first piece inspection, layout inspection and tool set up, or as a flexible gage. The machine's software features a shop-floor graphics interface that guides operators through part programming, setup and execution of the inspection routine.

### **Engineering**

Through reverse engineering, RPM has the ability to clone and reproduce an existing product or tool. Specifications and prints are created from an existing piece and then fabricated to meet customer requirements.





0.46765"  
ADD

PRESET 1in/mm  
ZERO/SET

0-1" .00005"  
0.001mm  
Mitutoyo



### **Aerospace and Defense**

Our extensive capabilities and proven performance enable us to meet the needs of today's aerospace and defense industries. We understand the importance of high tolerances, consistent quality and maximum efficiency – and we are committed to delivering.

### **Services and Work Stations**

RPM offers a heat treat operation to provide extended value to our customers by holding down costs and speeding up delivery. Any tool sets that can be air or oil quenched can be hardened and tempered in about a one-day cycle.

To extend the life of our clients' cutting tools, punches, dies, blades, broaches, and other wear parts, extreme cold treatments is a service that offers an opportunity to control costs on an on-going effort. Our 77° K (-320° F) Deep Cryogenics process extends the life of many types of cutting tools.



### **The RPM Advantage.**

Since 1967, RPM has been dedicated to delivering the industry's highest standards of quality.

With a team of nearly 40 people we can provide an extensive range of innovative services and superior quality, yet maintain a high level of efficiency, attention to detail and personal service. The result is finished products that not only meet industry ISO standards, but also fully meet each customer's exact specifications.

### **RPM's management team includes:**

Joseph Phillips, Vice President/Owner

Carrie Ritcher Phillips, Director of Marketing

Eric Metcalfe, President/Owner

(pictured above, L-R)

### **Featured Services**

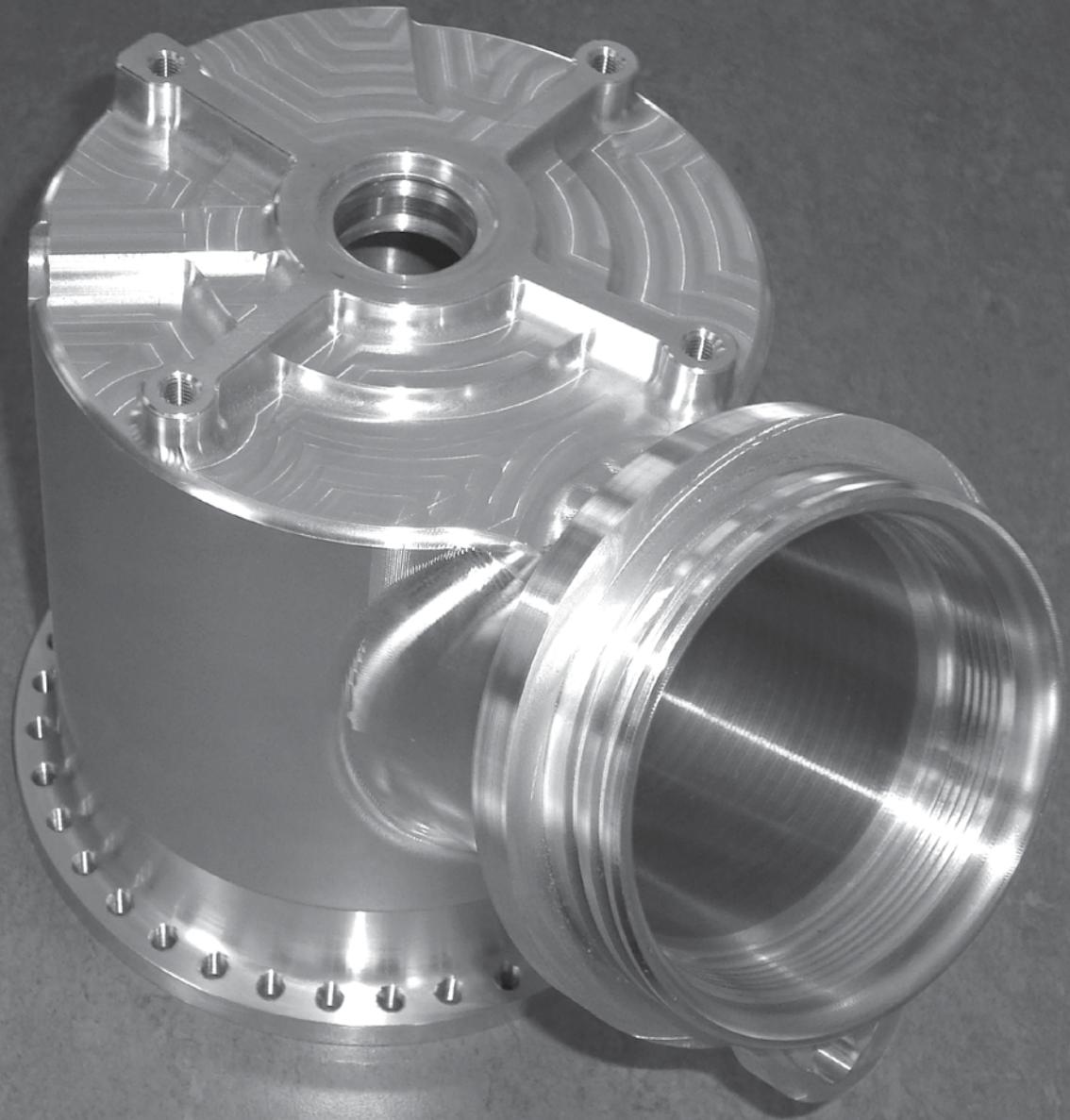
- Refurbishing Tooling
- Rebuilding Tooling
- Inspection
- Reverse Engineering
- Heat Treat
- Custom Production
- Inventory Programs
- CNC Grinding
- Hard Turning
- Hard Milling
- EDM
- Cryogenics
- Prototype Development
- Pick up & Delivery

### **Featured Products**

- Die Details (Round & Intricate)
- Punches
- Knock Out Pins
- Inserts
- Feed Rolls
- Can Tooling
- Tab Tooling
- Cold Headed Tools
- Hot Forming Tools
- Fastener Tooling
- Segmented Carbide Dies
- Stamping
- Deep Draw
- Extrusion Tooling

### **Featured Materials**

- Stainless Steel
- Tool Steel
- Aluminum
- Bronze/Brass
- Powdered Metals
- Rhenium
- Plastics
- Beryllium Copper
- Stellite
- Thoragated Tungsten
- Titanium
- Inconel
- Ceramics
- Tungsten Carbide



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