



Machining PTFE and other tough plastics requires special expertise, precision machining equipment and years of proven experience. Plasidyne Engineering and Manufacturing, Inc. has four decades of experience, extensive CNC machinery and the specialized expertise to satisfy even the most rigorous parts specifications.

Whether your job is for aerospace, military, government or commercial applications, we can satisfy your needs at competitive pricing according to schedule. Plasidyne does everything from washers to complex components. And we can handle both small quantity and volume manufacturing requirements.

Plasidyne guarantees delivery of high-quality parts. Our Quality Management System is both ISO 9000:2000 and AS9100 certified and we inspect all parts in an environmentally-controlled clean room.

Rapid Prototyping and Manufacturing of High-Quality, Precision-Machined PTFE and other Plastic Parts to Meet your Specifications!



Plasidyne offers:

- ⇒ Flexibility, with an emphasis on satisfying our clients' precise needs.
- ⇒ Rapid prototyping and manufacturing of both simple and complex parts.
- ⇒ Difficult to find expertise and experience.
- ⇒ High-quality, manufacturing that meets your schedule!
- ⇒ Competitive pricing!

Plasidyne Engineering and Manufacturing, Inc.

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Experience Counts!

When you need precision machined parts manufactured from PTFE and other tough plastics, it pays to choose someone who understands these materials and has years of proven experience.

With our four decades of experience, we can manufacture components from blueprints, sketches or even duplicate a sample part. No matter what size your job, whether it involves simple or complex requirements, Plasidyne can satisfy your needs.

So Does Expertise!

Working with Teflon and plastics to produce tricky parts with close tolerances requires special expertise.

We produce parts from jewelers-size to 50-inch diameters using a variety of PTFE and plastic materials. Plasidyne also compression-molds rod, tubing and other shapes that can either be finished by us or at your facility.

Precision-Machining Equipment

Plasidyne's wide range of high-tech CNC machines and conventional equipment such as mills and lathes allows us to satisfy almost any PTFE or other plastic production requirements.

Quality Assurance

Plasidyne is committed to meeting and exceeding the quality expectations of our customers. We can satisfy commercial, aerospace and military standards.

Our quality management system is both ISO 9000 and AS9100 certified. We maintain an environmentally-controlled inspection room to ensure that only high-quality products are delivered to our customers.

Plasidyne believes in exceptional employee training and adherence to proven procedures and processes. Our company culture fosters continuous improvement.

Plasidyne has the equipment, facilities and expertise for rapid prototyping and volume production. We can satisfy your close tolerance needs for precision-machined PTFE and exotic plastic parts and components.

Materials

- Acetal/Polycarbonate
- Acrylic/Rulon® AR, LR & J
- CPVC/Tivar®
- PVC/UHMW
- FEP/Tefzel®
- Delrin®/Nylatron® All Grades
- Delrin® AF Blend/Torlon® (All Grades)
- Delrin® 150/Ultem® 1000
- Delrin® 570/Ultem® 2300
- G-10/Kel-F®
- Kynar®/Peek
- Micarta® /Phenolic
- Nylon® 6/6 & 101
- Flougold®
- Plexiglas®/ABS
- Vespel® SP1, SP21, SP22 & SP211
- PTFE
- PTFE-Filled Materials

®These materials are registered trademarks of their respective companies.

Custom Molded Materials

- Mold Rods .625 –7.250 Diameters, up to 12" long
- Tubes 1.125 X .375 to 18.000 X 13.375, up to 9" long
- We can mold PTFE, Filled-PTFE materials or use your custom powders.
- Short lead times

Examples of Precision-Machined Parts

- Back-up Rings
- Bearings
- Blocks
- Bushings
- Caps
- Gaskets
- Guides
- Medical Parts
- Nozzles
- O-Rings
- Pads
- Plugs
- Rollers
- Butterfly Seals
- Seals
- Sleeves
- Spacers
- Valve Seats
- Ball Seals
- Wedge Rings
- Gaskets
- Washers
- Wear Rings
- V- Rings & Sets
- U-Cups
- Seat Gaskets
- Flange

Equipment

CNC Lathes

- 1-24" TRAK TRL 2460SX
- 1-18" TRAK TRL 1840SX
- 1-17" TRAK TRL 1745S
- 5-14" TRAK TRL 1440

CNC Mills

- HAAS VOP-B 30" X 18' Table
- TRAK QCM-1 11" X 8" Table
- HAAS Indexer

Conventional Lathes

- Two 14" Lathes
- One 24" Lathe
- One 46" Lathe

Conventional Mills

- Four mills with 12" to 30" tables.

- **Levins:** jewelers lathes to produce machined plastic parts from 1/32" to 5/16" Diameter.
- **Automatic Screw Machines:** Seven 1" Traubs for high-volume, low-cost machined plastic parts.
- **Molding:** Five Presses and two Grieve Ovens. Molding our PTFE and PTFE-filled materials on site allows us to offer shorter lead times.

Industries Served

- Aerospace
- Medical
- Oil Industry
- Hydraulics
- Pneumatics
- Fluid Handling
- Pumping Equipment
- Automobile Industry
- Commercial Job Shops