



Precision Machine Shop Services

- Production of precision machined parts and assemblies
- MIM (metal injection molding)
- Product Hardening
- Plasma coating of ceramic and other materials for extending wear life
- Plastic injection molding for highly precise short runs and prototypes
- CNC machining
- High vacuum clean heat treating
- Surface form grinding
- Certified mechanical inspection services
- Microscopic assembly
- Consulting services to help increase wear life on production equipment

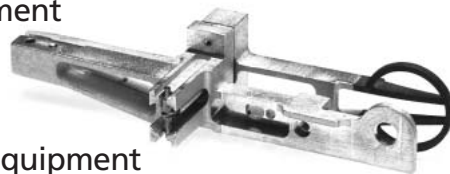


APPLICATIONS OF IMPROVED RELIABILITY AND WEAR LIFE

- Coin changers
- Card and ticket dispensing mechanisms
- Credit card swipe readers
- Bezels and plates for high traffic machinery
- Textile equipment
- Medical and dental devices
- Firearm parts
- Automotive parts
- Computer peripherals
- Semiconductor production equipment
- Consumer products
- Electronic packaging
- Custom parts for manufacturing equipment

SOME OF OUR CUSTOMERS

- L3 Communications
- PA Turnpike Commission
- New York City Transit Authority
- Chicago Transit Authority
- Cubic Transportation Systems
- Transcore
- Magtek
- Kulicke and Soffa



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Precision Machine Shop Services



Equipment List

CNC Vertical Machining Centers

- 2 Matsuura MC-500V with 20 tool ATC
- Indexer - Tsudakoma Circular Table
- Palletized
- Y axis 14" (360mm)
- X axis 20" (510mm)
- Z axis 18" (460mm)

- 2 Matsuura MC-510V with 20 tool ATC

- Palletized
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- X axis 20" (510mm)
- Z axis 18" (460mm)



CNC Turning

- 1 Pratt & Whitney
- SMW Air Chuck 6.5" (165mm) Diameter
- Swing (bed) 11.8" (299mm) Diameter (cross slide) 8" (203mm) Diameter
- X axis (cross slide) 10"
- Y axis (spindle) 11.8"
- Spindle through hole 1.18" (30mm) Diameter
- Bore length 4.375"

Manual Lathes

- 1 Schaublin Manual Lathe
- 1 Hardinge Manual Lathe swing 6" c/s, 10" bed, 20" C to C
- 1 Victor Manual Lathe swing 14" c/s, 40" C to C

CNC Grinding

- 2 Boyer-Schultz 6" x 18"

Milling

- 2 SuperMax Vertical Mills - autofeed
- 1 Luthy Vertical Mill
- 1 Ram/Morey Vertical/Horizontal Mill - autofeed
- 1 Billeter Vertical Mill
- 1 Barker double Spindle Mill
- 1 Bridgeport Vertical Mill - autofeed

Molding

- Arburg 270V Injection Molding Press

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Grinding

- 1 Mipsa Cylindrical Grinder - autofeed 10" swing, 17" C to C
- 4 Brown and Sharp Grinders - 618 Micromasters
- 1 Chevalier Surface FSG-1224AD - autofeed

Lapping

- 1 Kemit Lap
- 1 Crane Face Lap
- 1 Hoffman 66T Double Face Lap
- 1 Hoffman 32T Double Face Lap
- 2 Crane Lapmasters



Plasma Coating

- Metco 7-M Plasma Coating System

Coil Winding

- 2 Tanac AX3 - Computer Controlled

Support Equipment

- SIP Jig Bore
- Sunnen Hone
- Vapor Hone
- Crest Ultrasonic Aqueous Cleaning System
- Varian Wafering Machines
- Vibra-Sheen, Turbula and Sweco Tumblers
- Sandblasters
- Thomas Tap Disintegrate
- 2 Denison Model A Multi Presses
- Pasadena Heated Platen Press
- Jaespa and DO-ALL Bandsaws
- AutoCAD 2000
- Master Cam V5
- Baty Gage Master Optical Comparitors
- OGP Smartscope / Visual Inspection Machine
- Environmental Chamber
- Rockwell Hardness Tester



Heat Treating

- Blue M Oven
- High Vacuum Furnace with Molybdenum Chamber

**We can engineer custom solutions for you.
Call or email us to find out more.**



Certificate US98/1515