

PRECISION TOOL TECHNOLOGIES, INC FACILITIES LIST

PHYSICAL PLANT AND MATERIAL HANDLING

Office Area 3,000 sq. ft.
Manufacturing Area 15,000 sq. ft. with 3 8'X10' truck bays;
1 bay with concrete loading dock, 2 bays with automated dock levelers
1 ground level 12'X14' entrance
700 amp 460 volt power
3 ton 29'X100' Bridge Crane 12' hook height
1 – 3500 lb. Fork lift 1- 4400 lb. Fork lift– Pallet jacks
1000 lb. die cart Several misc. carts, jacks, and dollies
1 – 2008 Amada PCSAW330 Pulse Saw
1 – 2017 J.F. Berns Servo Auto Champ 2 Bar Chamfering Machine
168 MFG. FullShop Automated Coolant Monitoring and Delivery System
Torit Dust/Mist Collection System
Tenent Riding Floor Scrubber
Tenent Riding Floor Sweeper
2 – Gardner Denver L37RS 50 hp Air Compressor Systems
2400 sq. ft. Manufacturing facility- 16' ceiling, 6" heated floor with 12 ton A.C.
400 amp 220 volt power
Premises are kept clean and orderly

RAPID PROTOTYPING

Stratasys F370 3D FDM Printer, Build Area:14" X 10" X 14" Materials Available: ABS,ASA,Flexible TPU and PC-ABS

MULTI-TASKING MACHINING-“LIGHTS OUT” MANUFACTURING CAPABILITIES

- ◆ 1 – 2014 DMG Mori/Seiki NLX2500SY/700 Twin Spindle CNC Lathe/Mill, 3.15” Thru Capacity, 25 H.P. Main Spindle, 15 H.P. Second Spindle, 12 Turret 10,000 R.P.M. Live Tooling, Maximum Part Length of 27.7”, Max Diameter 10.8”, Programmable Conveyor
- ◆ 1 – 2012 DMG Mori/Seiki NLX2500 Single Spindle CNC Mill Turn, 3.15” Thru Capacity, 25 H.P. Main Spindle, 12 Turret 10,000 R.P.M. Live Tooling, Maximum Part Length of 27.7”, Max Diameter 10.8”
- ◆ 1 – 2016 Willemin-Macodel 508MT2-300 5-Axis Machining Center, 2.56” Thru Capacity, 42,000 RPM Main Spindle, 3,000 RPM Turn-Spindle, 8,000 RPM Sub-Spindle, 72 Position Tool Holder Magazine, .000004” Resolution, Fanuc 31i-B5 Control, Max Part Length 9.8”, Max Diameter 4” High Accuracy Direct Drive Linear Motors, Gear Hobbing Capability
- ◆ 1 – 2016 Fanuc LR Mate 200iD 6-Axis Robot Cell, 15.43 Lb. Max Payload.
- ◆ 1 – 2017 Willemin-Macodel 508MT2-400 5-Axis Machining Center, 2.56” Thru Capacity, 42,000 RPM Main Spindle, 3,000 RPM Turn-Spindle, 8,000 RPM Sub-Spindle, 72 Position Tool Holder Magazine, .000004” Resolution, Fanuc 31i-B5 Control, Max Part Length 13.7”, Max Diameter 4”, High Accuracy Direct Drive Linear Motors, Gear Hobbing Capability
- ◆ 1 – 2017 Fanuc LR Mate 200iD 6-Axis Robot Cell, 15.43 lb. Max Payload
- ◆ 1 – 2017 DMG Mori/Seiki NLX2500SY/700 Twin Spindle CNC Lathe/Mill, 3.15” Thru Capacity, 25 H.P. Main Spindle, 15 H.P. Second Spindle, 12 Turret 10,000 RPM Live Tooling, Maximum Part Length of 27.7”, Max Diameter 10.8”.
- ◆ 1 – 2018 Citizen Miyano BNX-51MSY Two Spindle CNC Lathe/Mill, 2” Thru Capacity, 12 Turret 6,000 RPM Live Tooling, Maximum Part Length of 5.9”, .00001 Resolution, Clear Shift Spindle with Superimposition of Control Axes, Mitsubishi M70V Control.
- ◆ 1 – 2019 DMG Mori/Seiki NLX2500/700 Two Spindle CNC Lathe/Mill, 3.15” Thru Capacity, 35 H.P. Main Spindle, 15 H.P. Second Spindle, 12 Turret 10,000 RPM Live Tooling, Maximum Part Length 27.7”, Max Turning Diameter 10.8”.

TOOL ROOM MACHINES

- ◆ 1 - 2007 Makino S56 VMC, 20,000 RPM, Max Work Size X=33.5”, Y= 19.7”, Z= 17.7”, 20 Station Automatic Tool Changer, 1,323 lb. Table Capacity, Fully Programmable 4th Axis, Renishaw Touch Probe, Mold and Die Machining Capabilities.
- ◆ 1 – 2010 Fadal VMC 3016 MAG, 39" x 16" T-Slotted Table, 30" X-Travel, 16" Y-Travel, 24" Z-Travel, 28" Maximum Table to Spindle, 1,000 Lb. Table Capacity, Cat-40 Spindle Taper, 10,000 RPM Spindle, 21-Tool Automatic Tool Changer, Fadal CNC 88HS CNC Controls, Renishaw MP12 Touch Probe.
- ◆ 1 – 2019 DMG Mori DMU 50 3rd Generation 5 Axis VMC, 20,000 RPM, X=25.6” Y=20.5” Z=18.7”, 60 Station Automatic Tool Changer, Swivel Rotary Table For 5 Axis Simultaneous Machining, Infrared Renishaw Probe, Laser Tool Measuring, CELOS With Siemens Control.
- ◆ 1 – 2008 Hardinge HLV-H Precision tool room lathe, 11” x 18” rated capacity, 11” swing over bed, 6” swing over cross slide, 18” between centers, 125 to 3,000 variable spindle speeds, 1-1/4” hole thru spindle, standard, and metric threading, 1-1/16” collet capacity, Acu-Rite 200S digital 2-axis DRO, 5C collet closer, 3-jaw chuck, 4-jaw chuck, tailstock, complete set of collets, chucks, and tooling.
- ◆ 1 – Monarch Engine Lathe 1956, Max Diameter 16”, Max Length 54”
- ◆ 1 – 1986 Hardinge C-42 CNC Lathe, 6” Chuck, Accurate To .0002”
- ◆ 1 – 1997 Daewoo Puma 10HC Lathe, 30 HP, 14.75” Chuck, 3” Bar Capacity, 26” length, Accurate To .0004”
- ◆ 1 – 2008 Sharp 2.5 axis Mill CNC AccuRite Mill Power 10” X 54” Travel
- ◆ 1 – 2014 Sharp 3 axis Mill CNC AccuRite mill power 10” X 54” Travel
- ◆ 1 – 2016 Sharp 3 Axis Mill, CNC AccuRite Mill Power, 10” x 54” Travel

- ◆ 1 – 2008 Mitsui MSG-400HMD 16"X32" 3 Axis Surface Grinder; Sony 2 Axis Display, OS Walker Electromagnetic Chuck.
 - ◆ 1 –2004 Mitsui Model MSG-200MH, Precision Surface Grinder, 6" x 12" Rated Capacity, 15" Longitudinal Travel, 8" Cross Table Travel, 18" Maximum Distance Table to Spindle Centerline, 8" x 3/4" Maximum Wheel Size, Hand Feeds, 6" x 12" Electromagnetic Chuck with O.S. Walker Chuck Controls, Auto Lubrication, Sony LG10 2-Axis DRO.
 - ◆ 1 –Mitsui Model MSG-200MH, Precision Surface Grinder, 6" x 12" Rated Capacity, 15" Longitudinal Travel, 8" Cross Table Travel, 18" Maximum Distance Table to Spindle Centerline, 8" x 3/4" Maximum Wheel Size, Hand Feeds, 6" x 12" Permanent Magnetic Chuck, Sony LH31A 2-Axis DRO, Optidress PC Tech Precision Grinding Camera with ULTrak Video Monitor and Heidenhain 2-Axis DRO, Vac-U-Gard Type Wheel Guard.
 - ◆ 1 –2000 Mitsui Model MSG-205MH, Precision Surface Grinder, 6" x 18" Rated Capacity, 20" Longitudinal Travel, 8" Cross Table Travel, 18" Maximum Distance Table to Spindle Centerline, 8" x 3/4" Maximum Wheel Size, Hand Feeds, 6" x 12" Electromagnetic Chuck with O.S. Walker Chuck Controls, Auto Lubrication, with OptiDress Model E, Precision Wheel Dresser, Sony LH51 DRO.
 - ◆ 1 – Mitsui High Tech MSG-200MH, Walker Electromagnetic Chuck, Sony Digital read out .00002
 - ◆ 2 – Harig Ultra Grind Spin Fixture, 5C Collet and V-Block, Motorized Rotation
 - ◆ 2 – Suburban 6 X 6" Multi-angle Magnetic Sine Chuck
 - ◆ 1 – Herman Schmidt 6 X 6" Magnetic Sine Chuck
 - ◆ 1 – Herman Schmidt Super Precision 3R Spin Fixture, with Motorized Rotation
 - ◆ 1 – Deckel Tool and Cutter Grinder D-812
 - ◆ - Herman Schmidt Tool Making Equipment – V-blocks, Vises, Radius Dressers, Precision Stainless Chucks
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INJECTION MOLDING- "LIGHTS OUT" MANUFACTURING

- ◆ 1– 2008 310 Ton Toshiba Electric EC310V30, Distance Between Tie Bars: 28.74" x 28.74", Shot Size 37 oz.
- ◆ 1 – Geiger Handling Conveyor, and Vibratory Bowl.
- ◆ 1 – Sepro S5-25 Three Axis Robot, 22 LB Max Payload.
- ◆ 1 – Novatec Gravimetric Color System
- ◆ 1 – Novatec Blender system
- ◆ 2 – NovaDrier Systems Model # ND-25 & ND-75
- ◆ 1– 2007 85 Ton Toshiba Electric E85V30, Distance Between Tie Bars: 14" x 14", Shot Size 3.3 oz.
- ◆ 3 – HYRobotics Sprue/ Part Picking Robot
- ◆ 1– 2002 110 Ton Toshiba Electric ECN110V21, Distance Between Tie Bars: Horizontal 16.1" Vertical 16.1", Shot Size 4.2 oz.
- ◆ 1 – IMS Hopper Dryer, Model # MD-750-50
- ◆ 1 – 2016 200 Ton Toshiba Electric EC200SXIIIV50, Distance Between Tie Bars: 22" x 20.1", Shot Size 15.41 oz.
- ◆ 1 – 2016 Sepro Success 22 Three Axis Robot

INJECTION MOLDING EQUIPMENT

- ◆ 1 – Yushin Programmable Sprue/ Part Removal Robots, Model #HOPIII-M750XC
 - ◆ 1 – IMS Hopper Dryer, Model # 130017-DRYER
 - ◆ 1 – Foremost Granulator, Model # 302
 - ◆ 1 – Rapid Granulator, Model # 150-35
 - ◆ 1 – Cumberland Granulator, Model # 302
 - ◆ 1 – Plastic Process Equipment Tumbler Mixer
 - ◆ 2 – ConAir Color Feeder
 - ◆ 2 – ConAir Carousal Dryers
 - ◆ 3 – ConAir Drying Hoppers
 - ◆ 4 – ConAir TW Plus Thermolaters
 - ◆ 1 – Advantage Sentra LE Temperature Controller
 - ◆ 1 – Advantage Central Chiller System
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ELECTRICAL DISCHARGE MACHINES

- ◆ 1– 2016 Mitsubishi MV122-R Advance Plus Wire EDM, Travel 15.7" X 11.8" X 8.7", Automatic Wire Threading, 5 Axis Machining Capabilities, Glass Scales, .000002 Resolution, .004" Minimum Wire Diameter, 22 lb. Wire Spool, Chiller Control System. System 3R Accessories
 - ◆ 1– Makino Edge 2 Sink EDM, Travel 11.81" X 9.84" X 9.84", 16 Station Tool Changer, System 3R Tool Holders, C Axis Rotary, Oilmatic Chiller.
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PART MARKING

- ◆ 1 – Electrox FLeXZY 20W Laser Engraving Machine.
 - ◆ 1 – Hermes IS 400 CNC Engraving Machine.
 - ◆ 1 – 3rd Axis Rotational.
 - ◆ 1 – Telesis TMP 6100 CNC Pin Stamp Marking System.
 - ◆ 1 – ICN-B100 90MM Automatic Pad Printer.
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WELDING

- ◆ 1 – Brightstar Laser Welder 1900 Series - 80 Watt - 100 Joule System
 - ◆ 1 – Miller Syncrowave 250 TIG welder, 250 amps
 - ◆ 1 – Miller Millermatic Wire Feed Welder, 200 amps
 - ◆ Silver Soldering capabilities
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OPTICAL GENERATING

- ◆ 3–CNC Loh V-75 Lens Generators
 - ◆ True rotational 3rd axis
 - ◆ Siemens control with Heidenhahn scales
 - ◆ Spherical and Toric, Concave and Convex Geometries
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SOFTWARE / OFFICE EQUIPMENT

- ◆ Gibbs Computer Aided Manufacturing, Updated Yearly
- ◆ Solid Works Solid Modeling System, Updated Yearly
- ◆ Esprit SolidWire 2012 CAD/CAM
- ◆ Predator DNC
- ◆ Predator Touch HMI
- ◆ PolyWorks V12
- ◆ Solid Works Enterprise PDM Engineering Data Management, Updated Yearly
- ◆ Drawing File Formats– STEP, DWG, IGES, DXF, SAT, STL, Para solid X_T, Solid Edge PAR, Solid Works SLDPRT, SLDRW
- ◆ EVO – ERP Process Control System
- ◆ M-Files Dynamic Content Management Software
- ◆ Scytec DataXchange Machine Monitoring

QUALITY CONTROL

- ◆ 2009 Zeiss Accura Coordinate Measuring Machine Range X=35.4" (900mm) Y=70.9" (1800mm) Z=27.6" (700mm) Probing Head, Laser Line Scan Head
- ◆ Starrett Pink Granite Surface Plate, 36" x 72" x 12", Grade AA Laboratory
- ◆ Tru-Stone Gray Granite Surface Plate Grade AA 24"x 24"x 6" Thick
- ◆ Tru-Stone Gray Granite Surface Plate Grade A 36" x 36"
- ◆ Tru-Stone Gray Granite Surface Plate Grade B 24" x 36"
- ◆ Starrett Gray Granite Surface Plate Grade A 8" x 12"
- ◆ 2- Black Granite Surface Plates No Grade 12" x 18"
- ◆ Black Granite Surface Plate No Grade 9" x 12"
- ◆ Black Granite Surface Plate No Grade 24" x 36"
- ◆ Authorized Mitutoyo Distributor
- ◆ We are a Precision Gage Manufacturer for the Ophthalmic Industry
- ◆ Complete Set Meyer Pin Gages and Mitutoyo Gage Blocks
- ◆ Full Set of Precision Optical Sagitta Gages
- ◆ 3 – Sheffield air/electric gauging columns
- ◆ GSX Optical Digital Comparator
- ◆ Keyence IM-6225T Image Dimension Measurement System
- ◆ 2016 Haimer TD2009 Balancing Machine
- ◆ 2020 Haimer Microset Tool Presetter