

FACILITIES LIST

A CNC Machine Shop that specializes in large, complex precision machined parts

- ▶ **Privately Held Corporation** – Established 1989
- ▶ **Workforce:** 80+ Skilled Employees (Non-Union), Operating 2 Shifts (20 Hours/Day, 6 Days/Week)
- ▶ **Facility Size:** Over 100,000 Square Feet of Dedicated Manufacturing Space
- ▶ **Emergency Services:** Rapid Response Capabilities for Crisis Situations
- ▶ **Industry Expertise:** Proudly Serving a Diversified Customer Base Across Multiple Sectors

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Project Management

- 1 Accept drawings and program files via E-mail (AutoCAD, .DXF, .IGES, .PDF, .STEP, .PRT, SLDPRT, .PRT, .IAM)
- 2 One point of contact, offering turnkey solutions to handle all your fabricating, machining, and assembly needs
- 3 A more professional alternative to machine and process your important parts

Quality Management System

- ▶ **QUALITY MANAGEMENT SYSTEM CERTIFIED TO ISO 9001: 2015 and AS9100: 2016**
- ▶ Procedures developed for: Document Control, Record Control, Management Review, Gage Calibration, Customer Satisfaction, Internal Audits, Inspection, Nonconforming Product, Corrective Action & Preventative Action.
- ▶ Climate controlled Metrology Lab
- ▶ Custom Dimensional Inspection Reports to suit your needs
- ▶ Uncontrolled QC Manual Available upon request
- ▶ Internal Gage Calibration system in place

- ▶ **ZEISS COORDINATE MEASURING MACHINE ACCURA II 2000/4200/1500**
165" Long x 78" Wide x 59" Tall
Open Bridge Design w/ Calypso Vast Navigator Software
- ▶ **ZEISS COORDINATE MEASURING MACHINE CONTURA 1200/1800/1000 (2X)**
70" Long x 47" Wide x 39" Tall
Open Bridge Design w/ Calypso Vast Navigator Software
- ▶ **HEXAGON ABSOLUTE ARM 7-AXIS (3X)**
Measurement Volume Diameter up to 177"
Portable Measuring Arm w/ Calypso Vast Navigator Software & 3D Scanning Capabilities
- ▶ **MITUTOYO COORDINATE MEASURING MACHINE BRT-M710**
40" Long x 28" Wide x 28" Tall
IBM NetVista Computer system with GEOMeasure 3000 Software
- ▶ **OPTICAL COMPARITOR / HEIGHT GAGE / FULL COMPLIMENT OF QC INSTRUMENTS AND STANDARDS**

Assembly Support Equipment

- ▶ 10 ton Overhead crane rail runways
- ▶ Jib Cranes: 1-5 tons capacity
- ▶ Steelman Electric Bake Oven, 450°F max., 65" x 65" x 65" for Interference fit / Shrink fits during assembly
- ▶ Paint booth: 10 ft x 10 ft x 10 ft capacity
- ▶ Boss FM-D open table laser-engraving system
- ▶ Full complement of assembly tooling, hydraulic equipment and handling devices

Secondary Services

- ▶ Heat Treating: Hardening, solution annealing, carburizing, nitriding, oil hardening, flame harden, normalizing, stress relieve, quench & tempering
- ▶ Surface Treatments: Anodizing (clear, color, hardcoat), Plating (chrome, electroless nickel plating, zinc plating, black oxide, chem film/alodine/conversion coating), Painting.

CNC 5-AXIS MILLING CENTERS

QTY	MACHINE	MODEL	DESCRIPTION
1	Mazak	Variaxis i-1050	X axis = 48" Y axis = 55" Z axis = 36" B-axis (tilt) = 280°, C-axis (rotation) = ±360°
1	Mazak	Variaxis i-800T	X axis = 29" Y axis = 34" Z axis = 22" B-axis (tilt) = 150°, C-axis (rotation) = ±360°
1	Mazak	Variaxis i-800	X axis = 29" Y axis = 34" Z axis = 22" B-axis (tilt) = 150°, C-axis (rotation) = ±360°
1	Mazak	Variaxis C-600	X axis = 26" Y axis = 22" Z axis = 21" B-axis (tilt) = 150°, C-axis (rotation) = ±360°

CNC HORIZONTAL MILLING CENTERS

QTY	MACHINE	MODEL	DESCRIPTION
1	Toshiba Shibaura	BTD-13F.R22	5" Spindle, Horizontal Boring Mill X axis = 120" Y axis = 90" Z axis = 63" W axis = 28" Full fifth axis with Rotary Index Table .001"
1	Toshiba Shibaura	BTD-110.R16	4 ½ " Spindle, Horizontal Boring Mill X axis = 80" Y axis = 60" Z axis = 60" W axis = 20" Full fifth axis with Rotary Index Table .001"
1	Mazak	Nexus 10800-II	Two Pallet Table Changer - Horizontal Machining Center X axis = 66" Y axis = 55" Z axis = 60" Full fifth axis with Rotary Index Table .001
1	Mazak	Nexus 10800-II	Two Pallet Table Changer - Horizontal Machining Center X axis = 66" Y axis = 55" Z axis = 60" Full fifth axis with Rotary Index Table .001
1	Mazak	Mazatech FH-880	Two Pallet Table Changer - Horizontal Machining Center X axis = 50" Y axis = 43" Z axis = 40"
1	Mazak	Nexus HCN-6800	Two Pallet Table Changer - Horizontal Machining Center X axis = 41" Y axis = 35" Z axis = 38" Full fifth axis with Rotary Index Table .001
1	Mazak	Nexus HCN-6800	Two Pallet Table Changer - Horizontal Machining Center X axis = 40" Y axis = 35" Z axis = 48" Full fifth axis with Rotary Index Table .001
1	Mazak	Nexus HCN-6800	Two Pallet Table Changer - Horizontal Machining Center X axis = 40" Y axis = 35" Z axis = 48" Full fifth axis with Rotary Index Table .001
1	Mazak	Nexus HCN-6800	Two Pallet Table Changer - Horizontal Machining Center X axis = 40" Y axis = 35" Z axis = 48" Full fifth axis with Rotary Index Table .001
1	Mazak	Mazatech H-630	Two Pallet Table Changer - Horizontal Machining Center X axis = 40" Y axis = 32" Z axis = 30"

CNC VERTICAL MILLING CENTERS

QTY	MACHINE	MODEL	DESCRIPTION
1	Mighty Viper Bridge Mill	PMC-4127AG	X axis = 161" Y axis = 106" Z axis = 43" tall Fourth axis on Rotary Index Table .001"
1	Mighty Viper Bridge Mill	PMX-4127AG	X axis = 157" Y axis = 82" Z axis = 43" tall Fourth axis on Rotary Index Table .001"
1	Mazak	FJV-60/120	X axis = 125" Y axis = 55" Z axis = 26" tall Fourth axis on Rotary Index Table .001"
1	Mazak	SV-25E	X axis = 102" Y axis = 30" Z axis = 30" tall Fourth axis on Rotary Index Table .001"
1	Mazak	VCN-705E	X axis = 80" Y axis = 28" Z axis = 28" tall Fourth axis on Rotary Index Table .001"
1	Mazak	Mazatech V-550	X axis = 60" Y axis = 22" Z axis = 20" tall Fourth axis on Rotary Index Table .001"
1	Mazak	Mazatech V-550	X axis = 60" Y axis = 22" Z axis = 20" tall Fourth axis on Rotary Index Table .001"
1	Mazak	VQC30/50A	X axis = 40" Y axis = 30" Z axis = 28" tall Fourth axis on Rotary Index Table .001"
1	Mazak	AJV-25/404	X axis = 40" Y axis = 20" Z axis = 21" tall Fourth axis on Rotary Index Table .001"
1	Mazak	VQC15/40	X axis = 16" Y axis = 20" Z axis = 16" tall Fourth axis on Rotary Index Table .001"
1	OKK	VM 411	X axis = 22" Y axis = 16" Z axis = 16" tall

CNC WIRE ELECTRICAL DISCHARGE MACHINE (EDM)

QTY	MACHINE	MODEL	DESCRIPTION
1	Mitsubishi	FA30 V	Submersible Large Capacity EDM Working Envelope: 29.5" long x 24" Wide x 20" Tall

CNC HORIZONTAL TURNING CENTERS

QTY	MACHINE	MODEL	DESCRIPTION
1	Mazak	Slant Turn 800	42" Maximum Diameter 32" over the cross slide x 160" Between Centers
1	Mazak	Slant Turn 550	40" Maximum Diameter 35" over the cross slide x 120" Between Centers
1	Mazak	Powermaster N Chucker	45" Maximum Diameter x 12" Z-Axis Travel 34" Maximum Diameter x 36" Z-Axis Travel
1	Mazak	Powermaster 1600 Chucker	48" Maximum Diameter 40" over the cross slide x 60" Z-Axis Travel
1	Mazak	Powermaster 1600 Chucker	42" Maximum Diameter 24" over the cross slide x 62" Z-Axis Travel
1	Mazak	Powermaster PMN 3000U	36" Maximum Diameter 22" over the cross slide x 120" Between Centers
1	Mazak	Quick Turn Nexus 450M	36" Maximum Diameter x 72" Between Centers Live tooling with milling & drilling capabilities 22" Diameter maximum shaft turning
1	Mazak	Slant Turn 50N	32" Maximum Diameter 24" over the cross slide x 80" Between Centers
1	Mazak	Quick Turn 350	22" Maximum Diameter 11" over the cross slide x 60" Between Centers
1	Mazak	M4-1500U	22" Maximum Diameter 11" over the cross slide x 60" Between Centers
1	Mazak	Quickturn 15N Universal	17" Maximum Diameter x 20" Long 10" Maximum Machining Diameter

CNC VERTICAL TURNING CENTERS

	MACHINE	MODEL	DESCRIPTION
2	Toshiba	TUE-200	94" Maximum Swing Diameter x 60" Tall Travel 78" Table Diameter
1	Toshiba	TUE-150	78" Maximum Swing Diameter x 60" Tall Travel 57" Table Diameter
1	Giddings & Lewis	VTL	84" Maximum Swing Diameter x 80" Tall Travel 72" Table Diameter
3	Mazak	Mega Turn 900	39" Maximum Swing Diameter x 31" Tall Travel 36" Table Diameter



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