

Facilities Listing



Milling and Boring Machines

Machine Type	Number of Machines	Max Machining Capabilities XYZ
Mitsui-Seiki HT3 CNC Horizontal twin pallet 4 Axis - 13,000 RPM	5	21.6" x 22" x 19"
Mitsui-Seiki HU40 CNC Horizontal twin pallet 4 Axis – 13,000 RPM	1	22" x 22" x 22"
Mitsui-Seiki HT4 CNC Horizontal twin pallet 4 Axis – 13,000 RPM	1	28" x 23" x 21.5"
Mitsui-Seiki 4DN Vertical CNC Jig Bore Mill w manual 4 Axis – 13,000 RPM	1	24" x 16" x 17"
Kitamura H400CNC Horizontal twin pallet 4 Axis- 10,000 RPM	2	24" x 20" x 20"
Kitamura My1 Vertical CNC – 10,000 RPM	2	20" x 14" x 16"
Kitamura My3 Vertical CNC – 10,000 RPM	1	30" x 18" x 18.2"
Supermax max3 Vertical CNC YCI	3	33.7" x 17.3" x 24.8"
Supermax fv102a Vertical CNC YCI	1	35.5" x 23.6" x 24.8"
Supermax fu56a Vertical CNC YCI	1	22" x 16" x 17"
Mori-Seiki NH4000 dcg High Speed Horizontal twin pallet 4 Axis	3	22" x 22" x 24"
Matsuura H plus-300 pc11High Speed Horizontal with 11 pallet changer – 20,000 RPM	1	19.6" x 22" x 19.6"
Fanuc Robodrills-t21ie High Speed twin pallet – 24,000 RPM	2	19.7" x 15" x 13"
Fanuc Robodrills-t21ie High Speed twin pallet – 24,000 RPM	4	27.5" x 15" x 13"
Matsuura es-800 High Speed Vertical with twin pallet changer CNC – 20,000 RPM	2	31.5" x 21.6" x 19.7"
Fryer MC60 Vertical CNC 12,000 RPM	1	60" x 30" x 28"

Turning CNC Centers

Machine Type	Number of Machines	Max Machining Capabilities
Tsugami Swiss Turn BZ18 Live Tooling w/ sub spindle	1	7 tools for main spindle are on a slide 3 live tools for main spindle 3 tools for sub spindle 5/8" thru the spindle for bar work Max spindle speed for main spindle 8000RPM Max spindle speed for sub spindle 4000RPM
Tsugami Swiss Turn SX20B Live Tooling w/ sub spindle	3	7 tools for main spindle are on a slide 3 live tools for main spindle 3 tools for sub spindle 3/4" dia. thru the spindle for bar work Max spindle speed for main spindle 6000RPM Max spindle speed for sub spindle 4000RPM
Tsugami Swiss Turn SX20C Live Tooling w/ sub spindle – super precision w/ 5 place programming and offsets	1	7 tools for main spindle are on a slide 3 live tools for main spindle 8 tools for sub spindle – 3 for live tooling 3/4" dia. thru the spindle for bar work Max. main spindle speed 6000 RPM Max. sub spindle speed 4000 RPM
Tsugami Swiss Turn ST1000 Live Tooling – with twin turrets, the rear turret has live tooling	1	2 Six station turrets front and rear having live tooling 1-1/4" dia. thru the spindle for bar work Max spindle speed for main spindle 5000 RPM
Nakamura WT150 Live Tooling and sub spindle – twin turrets – the main and sub spindle can work at the same time	1	2 twelve station turrets (upper and lower) all w/ live tooling 2 - 6" chucks / S20 collet 2" dia. Thru the spindle w/ 6" chucks Max turned dia. w/ chucks 6" Max turned dia. w/ collets 2" Max spindle speed both spindles 5000 RPM
Doosan Puma w/ Live Tooling w/ Gantry Loader to load/unload parts – can also be bar fed	1	12 station turret w/ live tooling 2.625" dia. thru the spindle bar work 8" chuck Max turned dia. 12" Max bored dia. 9" Max length of part for gantry loader 5" Max spindle speed 3500 RPM

Turning CNC Centers (cont)

Machine Type	Number of Machines	Max Machining Capabilities
Doosan Puma 300	1	12 station turret 4" dia. thru the spindle for bar work 12" chuck Max turned Dia. 16" Max bored diameter 14" Max length between centers 24" Max spindle speed 4500RPM
Hardinge Conquest 42SP – a super precision machine w/ 5 place programming and offsets	2	12 station turret 1-5/8" dia. thru the spindle for bar work 6" chuck 16C collet Max turned dia. 9" Max bored dia. 7" Max length between centers - (collet 10" /chuck 6") Max spindle speed 4500 RPM
Hardinge Conquest 51 w/ live tooling	1	12 station turret w/ live tooling 2" dia. thru the spindle for bar work 8" chuck 20C collet Max turned dia. 12" Max turned dia. 9" Max length between centers - (collet 17" / chuck 13") Max spindle speed 4000 RPM
Hardinge Conquest 65 w/ live tooling	1	10 Station turret w/ live tooling 2-1/2" dia. thru the spindle for bar work 10" chuck - 25C collet Max turned dia. 14" -Max bored dia. 12" Max length between centers - (collet 17" / chuck 13") Max spindle speed 3500 RPM
Hardinge Conquest Gangster GT – super precision machine w/ 5 place programming and offsets. Since tooling is on a slide, there is no indexing necessary, making tolerances easier to hold.	1	Slide can fit 7 tools 1-1/16" dia. thru the spindle for bar work 5C collet Max. turned dia. 1.062" Max spindle speed 6000 RPM
Hardinge CHNC w/ a removable turret so production jobs can be left set up	3	8 station removable turret 1-5/8" dia. thru the spindle for bar work 5" chuck 16C collet Max turned dia. 6" Max spindle speed 5000RPM

Turning CNC Centers (cont)

Machine Type	Number of Machines	Max Machining Capabilities
Hitachi Seiki 25G	1	12 station turret 2 ½" dia. thru the spindle for bar work 10" chuck Max turned dia. 21" Max bored dia. 18" Max length between centers 22" Max spindle speed 3500 RPM
KIA 21	2	12 station turret 2" dia. thru the spindle for bar work 8" chuck Max turned dia. 12" Max bored dia. 9" Max length between centers 15" Max spindle speed 4000 RPM

Electrical Discharge Machining (EDM)

Eltree Pulisitron RAM EDM

Mitsubishi CX20 CNC 4 Axis Wire EDM

Quality Assurance Systems

Three - Zeiss CNC Coordinate Measuring Machines

Three - Optical Comparators

Pratt & Whitney Super Micrometers

Non-contact Laser Micrometers

Rockwell Hardness Testers

Profilometers / ScienScope (20X to 90X)

Mantis stereo scopes

Mechanical inspection gauging

ASQ Certified Mechanical Inspector

ASQ Certified Quality Technician

CimWorks Real-time Statistical Process Control (SPC) network with full compliment of digital gaging utilizing Gageport interfacing

Support Systems

Epicor's Vantage® Enterprise Resource System (ERP)

Unigraphics NX7 CAD/CAM on a Windows XP network

Unigraphics CAD SOLID EDGE

CATIA Version 4 and 5

AUTOCAD LT / CADKEY CAD

CGTECH VERICUT

Virtual Gibbs CAM / Lathe / Mill / Solid Modeling

Metalsoft's Fabriwin CAD/CAM for Amada (Fabrication)

Pro – E Wildfire 5.0

Conversion Capabilities

- DWG
- DXF
- IGES/PDF
- Parasolid
- STP/STEP

Fabrication Equipment

Amada, Pega 244 CNC Punch Press

Two - Amada CNC Brakes – RG 80

Amada 8' Shear w/ Power back gage .090 Stainless Steel Cap

Amada Power Notcher w/ LED Read- Out

Round Power Roller, 60" X 10 GA. Cap

Two - Haeger, Hardware Press, Model "HP6-B"

Manual Equipment

Gun Drill / 15" Stroke

Tool & Cutter Grinders

Lathes / Manual Surface Grinder

Vertical Mills with Digital Readout

Saw Capabilities

Vertical Do-All with Hydraulic power Feed

Three Horizontal Saws

Paint Capabilities(Military and Commercial Standards)

Wet Painting	500 Degree (F) Oven 6' x 7' x 12'
Nordson Versa-Spray Powder Coating System	Bonding Oven 24" x 48" x 48"
Gloss Meter	

Assembly

Electrical Assembly	Testing and Concurrent Engineering
Mechanical Assembly	Laminaire Flow Booth, Class 1000
Two Haeger Presses, one w/ auto feed	

Special Processing

MIL-DTL-55411 Type 1 Cert. Chromate Line	Certified Welding
Silk Screening	Spot Welders
Pressure Test Equipment and Gages	Extrude Honing
Induction Brazing (25 KW Level)	Bead Blasting (Glass & Sand)
Critical Deburring and Tumble Deburring	CFC Free Crest Ultra-Sonic Cleaning System

Other Information

Facility Size	50,000 S/F
Number of Employees	125
Certification	ISO 9001:2008
US Dept. of State - Defense Trade Controls Compliance	M20216 - Expiration Date 11/30/10
Business Type	Veteran Owned - Small Business
Dunn & Bradstreet	04-857-3562
Federal Tax ID #	52-0894524
NAICS Code	332710
Standard Industry Code	3599-03
Cage Code	63924
FDA Registration Number	3003279115
Established	August 1969