

Facilities Listing



Milling and Boring Machines

Machine Type	Number of Machines	Max Machining Capabilities XYZ
Yasda H40i Horizontal Machining Center, 5 Axis, twin pallet, 60 tools, 20,000 RPM	1	
Mitsui-Seiki HT3 CNC Horizontal twin pallet 4 Axis - 13,000 RPM	3	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"
Supermax fv102a Vertical CNC YCI	1	35.5" x 23.6" x 24.8"
Supermax fv56a Vertical CNC YCI	1	22" x 16" x 17"
Mori-Seiki NH40 dcg 00 High Speed Horizontal twin pallet 4 Axis	3	22" x 22" x 24"
Matsuura H plus-300 11 High 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 5 Axis index table 12,000 RPM	1	60" x 30" x 28"
Fryer MC60 Vertical CNC with Glass Scales 12,000 RPM	1	60" x 30" x 28"
Kiwa KH-45 4 axis 6 pallet 15000 RPM	1	
Feeler VPM-580 CNC Vertical Mill twin pallet 10000 RPM	2	

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 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 240 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
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

Turning CNC Centers (cont)

machine w/ 5 place programming and offsets		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 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 - (collet17" / chuck 13") Max spindle speed 3500 RPM
Hitachi Seiki 25G	1	12 station turret 2 1/2" 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	1	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
Mitsubishi CX20 CNC 4 Axis Wire EDM	
Makino Sinker EDM	

Quality Assurance Systems

3 - Zeiss CNC Coordinate Measuring Machines	3 - Optical Comparators
Pratt & Whitney Super Micrometers	Non-contact Laser Micrometers
Rockwell Hardness Testers	Profilometers / Scionscope (20X to 90X)
Mantis stereo scopes	Mechanical inspection gauging
ASQ Certified Mechanical Inspector	ASQ Certified Quality Technician

Support Systems

Epicor's Vantage® Enterprise Resource System (ERP)	<p><u>Conversion Capabilities</u></p> <ul style="list-style-type: none"> • DWG • DXF • IGES/PDF • Parasolid • STP/STEP
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	

Fabrication Equipment

Amada, Pega 244 CNC Turret Punch Press 20 Ton	2 - 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	

Manual Equipment

Gun Drill / 15" Stroke	2 Tool & Cutter Grinders
Hardinge Tool Room Lathe	2 Bridgeport Vertical Mills with Digital Readout
Harig Manual Surface Grinder 6" x 18"	

Saw Capabilities

Vertical Do-All with Hydraulic power Feed	Berhinger Horizontal Saw
Phoenix Horizontal Saw	

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
2 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 Lpel)	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	55-75
Certification	ISO 9001:2015
US Dept. of State - Defense Trade Controls Compliance	M20216
Dunn & Bradstreet	04-857-3562
Federal Tax ID #	52-0894524
NAICS Code	332710
Standard Industry Code	3599-03
Cage Code	63924
Established	August 1969