



Contract Manufacturing Services

Machine Shop Equipment

ALL MEASUREMENTS SHOWN IN INCHES

CNC Mills	X	Y	Z
Toyoda FV1680 VMC	32	36	31
Haas VF1	16	20	
Haas VF3 <i>with full 4th axis</i>	20	40	
Haas VF4SS/40 (2)	50	20	25
Haas VF5/50	50	26	25
Hurco VMX84 <i>with full 4th axis</i>	84	34	30
Okuma CadetMate VMC	19.5	40	16

CNC Lathes
Okuma Cadet C.N.C. Lathe
Okuma Crown C.N.C. Lathe (2)
ProtoTrak TRL 1840 SX Lathe
Mazak QT250

CNC Horizontal Mills	X	Y	Z
G&L 6 axis machine <i>5" spindle, 60 x 60 rotary table</i>	36	72	108
Mazak FH-580/40 (2) <i>20 x 20 pallets and full 4th axis</i>	28	24	26

CNC Knee Mills
Proto Trak DPM2 (2)
Bridgeport Prototrak (1)
Lagun (1)

Surf-Cam, MasterCam and Edgcam Programming System Software
DNC capabilities
All CNC's are networked to a single system for offline program control

Manual Mills
Ceruti Boring Mill

Manual Lathes	Swing	Lg
Sharp Engine Lathe	24	96
Acra-Turn Engine Lathe with DRO	24	180
Leblond Engine Lathe		
American Engine Lathe		
Warner Swasey #5 Turret Lathe		

Ginders	
Sharp Surface Grinder	20 x 47
Programmable DoAll Hydraulic Surface Grinder	
Cincinnati O.D. Grinder	
K.O. Lee Surface Grinder SB818	

Metal Forming and Cutting Equipment	Size	Tons
Mitsubishi HD-2512 Laser <i>Capable of cutting 3/4" mild steel</i>	4' x 8'	
Darley Press Brake <i>6-axis, programmable control</i>	10'	121
Edwards Ironworker		100
Bliss OBI Coil Feed Press		22
Press-right OBI Coil Feed Press		85
Minster OBI strip, coil, or blank Feed Press		45
Minster Die-namic strip or blank Feed Press		60

Saws	Max Cut
Peerless Automatic Bandsaw	13
Roll In Bandsaw	14
W F Wells - CNC Saw	
Ellis - Manual	

Miscellaneous	Tons
Radial Arm Drill Press - Donau	
Morrison Key Seater: Size: 1 1/4" w/6" Stroke	
Richards Multiform Hydraulic Bender <i>With programmable rotation</i>	
Ramco Manual Press	50
Bridge Crane	10
Bridge Crane	2
Speedy Cut ST-0 Auto-Tapper	
Many miscellaneous second op tools for deburring, chamfering, tapping, etc.	

Contact a Contract Manufacturing Services representative today to discuss additional CMS services to best meet your company's needs.

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Welders

Hobart Tig Welder
Miller Spot Welder, MSW-41T
Lincoln Square Way Tig 175
(3) Lincoln Power Mig 255
Thermal Arc - Tig Wave 250 AC-DC
Lincoln Mig Welder LF-74 Water Cooler
Lincoln Push-Pull for Alum. with Invector V350 P.R.O.& Water Cooler
Lincoln Power Mig 350
Plasma Cutter - ESAB Power Cut 1250 - 1" capability

Inspection Equipment

Absolute Arm 535 Portable 6-Axis high accuracy measuring machine arm with 11.5' measurement volume	11.5'
Cordax Discovery II D-12 CMM, by Scheffield <ul style="list-style-type: none">Automated (DCC) coordinate measuring machinePC-DMIS Pro Software	20" x 36" x 16"
Mitutoyo Optical Comparator with DRO	
B & S Coordinate Measuring Machine	
Rockwell Hardness Tester	
Federal Surface Roughness Gage	
Mitutoyo Height Master	
Fowler Bowers Hometric Bore Gages	1.370" to 6.000"
Sunnen Bore Gages	.740" to 6.000"
Mitutoyo Bore Gages	.700" to 10.000"
Micrometers	0" to 18"
Calipers	0" to 40"
Numerous Gage Pins, Gage Blocks, Indicators Thread Gages, and more	

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