

Facilities Listing

► ELECTRON BEAM WELDING EQUIPMENT (13 EB Welding Machines)

Wentgate 555	60kV Height Width Length	6kw 24" 24" 24"	Leybold-Heraeus 631	150kV Height Width Length	15kw 40" 36" 52"
Hamilton Standard 308	150kV Height Width Length	25kw 56" 56" 108"	Hamilton Standard 177	150kV Height Width Length	6kw 30" 23" 60"
Hamilton Standard 263	150kV Height Width Length	7.5kw 56" 56" 108"	Wentgate 921	60kV Height Width Length	3kw 24" 24" 24"
Hamilton Standard 603	150kV Height Width Length	7.5kw 45" 36" 53"	Wentgate 976	60kV Height Width Length	2.5kw 12" 12" 12"
Hamilton Standard 379 Surfi-Sculpt™	150kV Height Width Length	7.5kw 36" 36" 52"	Wentgate 956	60kV Height Width Length	2.5kw 12" 12" 12"
EBTEC/Hamilton Standard Large Chamber	150kV Height Width Length	25kw 110" 136" 144"	Cambridge Vacuum Engr (CVE)	60kV Diameter Height	6kw 13" 11"
Hamilton Standard 194	150kV Height Width Length	7.5kw 36" 36" 52"			

► EDM EQUIPMENT

• Mitek - Plunge • 120 Amp	X-Axis Y-Axis Z-Axis Tank Dim.	20" 16" 21" 46" x 27" x 17"	• Japax LXR100 - Wire • 60 Amp	X-Axis Y-Axis Z-Axis	40" 20" 18"
• Belmont - Plunge • 75 Amp	X-Axis Y-Axis Z-Axis Tank Dim.	17" 15" 19" 47" x 27" x 17"	• Japax LDM150 - Wire • 60 Amp	X-Axis Y-Axis Z-Axis	72" 33" 18"



EBTEC CORPORATION

120 Shoemaker Lane • Agawam, MA 01001
Tel: 413.786.0393 • Fax: 413.789.2851

www.ebteccorp.com

For more information see our **Thomas Register** ads under these headings: Electron Beam Welding, Welding Services, Laser Machining, Laser Services, Cutting, Drilling, Abrasive Waterjet Cutting & Drilling

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▶ LASER MACHINING EQUIPMENT (17 Machines (16) Nd:YAG, (1) Ytterbium Fiber)

IPG Photonics – 1 kw
Ytterbium Fiber Laser
Scanner Capable
CNC Parameter Control

Aerotech A3200 6-Axis Control
X-Axis 12"
Y-Axis 12"
Z-Axis 20"
Rotary 10"

Lumonics
Model J-K MS830
400 watt Nd:YAG

Aerotech U16 6-Axis Control
X-Axis 24"
Y-Axis 16"
Z-Axis 4"
Rotary Chuck - 4

Lasag
500 watt Nd:YAG
Integrated Scanner

Tri Sigma 8352 Control
X-Axis 46"
Y-Axis 36"
Z-Axis 21"

Control CLC-480 (480-1)
400 watt Nd:YAG

Allen Bradley 8200 6-Axis Control
X-Axis 24"
Y-Axis 18"
Z-Axis 18"
Tilt Rotary 8"

Lumonics
Model J-K MS330
350 watt Nd:YAG

Bandit 1 6-Axis Control
X-Axis 12"
Y-Axis 12"
Z-Axis 18"

LaserDyne 790
Aurora P-50 power supply
250 watt Nd:YAG
Integrated 5-Axis Wrist

6-Axis Control
X-Axis 80"
Y-Axis 32"
Z-Axis 40"
Tilt Rotary 25"

Raytheon SS500 (501-2)
400 watt Nd:YAG

Aerotech U620 6-Axis Control
X-Axis 52"
Y-Axis 36"
Z-Axis 24"
Tilt Rotary 12"

Raytheon SS500 (501-4)
400 watt Nd:YAG

Aerotech U16 6-Axis Control
X-Axis 36"
Y-Axis 36"
Z-Axis 24"
Tilt Rotary 20"

Aurora P50
250 watt Nd:YAG

Aerotech U620 6-Axis Control
X-Axis 36"
Y-Axis 36"
Z-Axis 24"
Tilt Rotary 12"

Raytheon SS500 (501-3)
400 watt Nd:YAG

Aerotech U16 3-Axis Control
X-Axis 14"
Y-Axis 20"
Z-Axis 12"
Tilt Rotary 10"

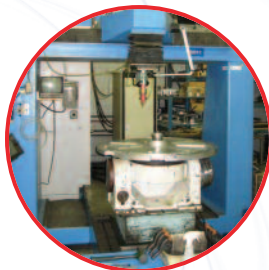
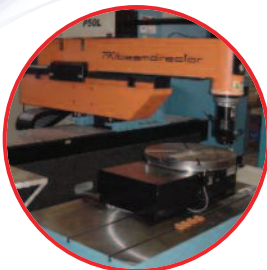
Raytheon SS500 (501-6)
Integrated Scanner

Aerotech U620 6-Axis Control
X-Axis 24"
Y-Axis 16"
Z-Axis 12"

Control CLC-480 (480-2)
400 watt Nd:YAG

Aerotech U16 6-Axis Control
X-Axis 29"
Y-Axis 36"
Z-Axis 22"
Tilt Rotary 20"

(continued)



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▶ LASER MACHINING EQUIPMENT – Continued

Raytheon SS500 (550-1) 400 watt Nd:YAG	Aerotech U620 6-Axis Control
	X-Axis 70"
	Y-Axis 34"
	Z-Axis 34"
Raytheon SS500 (550-2) 400 watt Nd:YAG	Tilt Rotary 20"
	Aerotech U620 6-Axis Control
	X-Axis 69"
	Y-Axis 36"
Raytheon SS500 (501-5) 400 watt Nd:YAG	Z-Axis 18"
	Tilt Rotary 12"
	Aerotech U16 6-Axis Control
	X-Axis 24"
	Y-Axis 18"
	Z-Axis 10"
	Tilt Rotary 12"

Raytheon SS500 (501-1) 400 watt Nd:YAG	Aerotech U620 6-Axis Control
	X-Axis 70"
	Y-Axis 34"
	Z-Axis 32"
Raytheon SS550 (550-3) 400 watt Nd:YAG	Tilt Rotary 18"
	Aerotech U620 6-Axis Control
	X-Axis 24"
	Y-Axis 24"
	Z-Axis 12"
	Rotary 4"

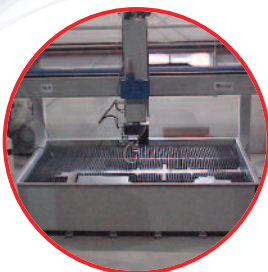
▶ ABRASIVE WATERJET (3 Machines: (2) 5-Axis, (1) Flat Sheet)

WardJet Flat Sheet Multi-head	55,000 PSI
	X-Axis 144"
	Y-Axis 96"
Par – Vector Integrated 5-Axis Wrist	55,000 PSI
	X-Axis 120"
	Y-Axis 72"
	Z-Axis 24"
	CNC Wrist

Par – Vector Integrated 5-Axis Wrist	55,000 PSI
	X-Axis 144"
	Y-Axis 96"
	Z-Axis 36"
	CNC Wrist

▶ ENGINEERING DEPARTMENT

- 2-Axis 'E' Size Digitizer
- 2-Axis 'E' Size Scanner
- 'E' Size Plotter
- 6 Seats MasterCam X, Solidworks 2008, Surfcam 2008
- File Capabilities: DXF, CADL, NFL, ASCII, IGES, UNISURF, UG, Pro-E



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► QUALITY CONTROL EQUIPMENT

- CMM (Wernel Xtreme LH) 39.4" x 47.2" x 31.5"
- Optical Comparator - 30"
- Rockwell Harness Tester (Wilson)
- Hite-icator (Brown & Sharpe) - Digital Height Stand
- Leak Detectors (Varian) 10⁻⁹ cc/sec. (2)
- Metallographic Microscope (Unitron) - 500x
- Mounting Press (Buehler)
- Polishers-Metallurgical (Buehler) (1)
- SPC Data Collector
- X-ray Film Viewer
- Airflow Bench (Hapco)
- Faro Arm - C.M.M.
- Digi-Magic Height Gages (Mitutoyo) 18" x 24" (2)
- Microhardness Tester (Leitz)
- Digital Height Stand (Tesa-hite 700)
- Surface Plates 4" x 6" x 8" (3)
- Mounting Press (EXTEC)
- Metallographic Cut Off Saw (Buehler)
- Various hand-held measuring equipment
- Vernier Calipers ranging to 48" - multiples
- Airflow Bench (EBTEC)

► HEATING TREATING

- Abar Ipsen Vacuum Furnace 48" dia. X 52" - 2 Bar
- Blue M Furnace 17.5" x 19.5" x 20" 700° F
- Cryogenic Freezer - Model PR 120 (7 cubic feet)
- Blue M Furnace 36" x 60" x 30" 900° F
- Cress Oven 12" x 8" 2250° F
- JPW - Air Furnace 72" x 48" x 72" 1200° F

► MANUFACTURING EQUIPMENT

- Hwacheon Twin Spindle, CNC - VTL, 50 H.P. (23"), 12 position tool holder
- Trak K-4 2-Axis - CNC - Knee Mill
- Trak DPM220 3-Axis - CNC - Vertical Mill
- Dorries CT 180 CNC - VTL - 63"
- Colchester Engine Lathe 15" x 52"
- Colchester Engine Lathe 13" x 48"
- Lion Engine Lathe 33" x 60"
- Lion Engine Lathe 36" x 60"
- DeVlieg 3H-72 Horizontal Jig Mill 35" x 72" x 48"
- Supermax - CNC - Vertical Mill
- Bridgeport - CNC - Vertical Mill
- Extec Auto Polisher (1)
- Radiation Survey Meters (Tracerlab) (2)
- Bullard Dynatrol - CNC - VTL - 46"
- Trinco Sand Blaster 48" x 48" x 60"
- Phillips Degreaser 48" x 72" x 48"
- Vaqua Wet Blast 30" x 30" x 18"
- Demagnetizer 36" x 29" x 24"
- Hoop Style Demagnetizer
- KR Wilson Hydraulic Press - 60 ton
- Black and Webster Resistance Tackers (2)
- Miller Syncrowave 350 TIG
- Airco AC-DC Square Wave TIG
- Smith Oxyacetylene Torch
- DoAll Band Saw
- Kysor Horizontal Band Saw



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- Eumach DM3000 Bridge-type Vertical Machining Center
 - 87" x 118" Table
 - 90" (Y-Axis) x 126" (X-Axis) Table Travel
 - 35.4" (Z-Axis) Head Travel
 - 45 H.P. Spindle Motor
 - 40 Tools Auto Tool Changer
 - High Pressure Through the Spindle Coolant
 - 6,000 RPM
 - Cat #50 Spindle Taper
 - Selca S3045 Controls
 - 17,000 lbs. Table Load
 - Tolerance Capability: .0002
 - Rapid Traverse Rate 591 IPM
 - Renishaw – Probe Tool Setter



- Vanguard TAC-16A CNC VTC
 - Max Swing – 78.74"
 - Max Turning Height – 62.99"
 - X-Axis Travel – 86.6"
 - Z-Axis Travel – 35.43"
 - 60/75 HP Spindle Motor
 - Fanuc 18iT CNC Control
 - 12 Station Auto Tool Changer
 - Renishaw Tool Measurement and Tool Setter



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