

**Online Auction of Crystal Product Manufacturer Including Vacuum Coaters and Platers, Hermetic Sealing Welders, Lappers, Ovens, Circuit Board, Electronic Assembly, Test, Lab, Toolroom and Support Equipment**

Plant Closed

**SURPLUS EQUIPMENT OF VECTRON INTL.**

**4314 Gray Rd.**

**Cincinnati, Ohio 45232**

*Just North of Downtown Cincinnati off I-75*

**ONLINE BIDDING ENDS: THURSDAY, AUGUST 10TH STARTING AT 9:00 AM  
CONTINUING FRIDAY, AUGUST 11<sup>TH</sup> IF NECESSARY**

**Inspection:** Day Prior from 10:00 AM to 4:00 PM

**Vacuum Coaters, Platers, Hermetic Sealing Welders and Related**

- (2) Airco Temescal FC-1800 Vacuum Coaters
- S&A Saunders and Associates 5600 and 5250 Platers
- Marsh PX-1000 and PX-250 Plasma Chambers
- Transat, Edwards, Showa Platers, Coater and Tuners
- (5) Benchmark and Polaris Projection and Seam Seal Welders
- KSE Kewaunee Scientific AGL Cold Welder
- Peco Messer FP-3K-1000 Resistance Welder
- Unitek Peco Welding Equipment
- Wire Bonders, Lid Tackers, Power Supplies, Chambers and Related

**Vacuum Pumps, Lappers, Ovens, Crystal Fab Machinery**

- (15) MI Mitsunaga MFLN Lappers to 2005
- (15) Strasbaugh, Hoffman and Other Lappers to 36"
- (20) Bench Top Lappers, Single and Dual Head
- (50+) Vacuum Pumps by Leybold, Edwards and Others
- (10) 24" – 36" Blue M Electric Lab Ovens
- (30) Bench Top Electric Lab Ovens, Most Blue M
- (20) Cascade-Tek and Tenney Bench Top Vacuum Test Chambers
- Lindberg Belt Ovens and Tube Furnaces
- (20+) Pcs. Custom Crystal Fabricating, Machining and Polishing Equipment

**Lab, Test, Electronic Assembly, Ovens and Related**

- Ultrasonic Cleaners and Power Supplies by Crest, SK and Others
- (5) Micro-Lab and Veriteq Poly Construction PLC Wet Benches
- Coburn Polishers, Centrifuges, Fume Hoods, Misc. Lab
- Fume Hoods, Stainless Tables, Stainless Piping
- Ambios Q-Scope 6SA Atomic Force Microscope
- Zeiss Rondcom 55A Profilometer

- Veeco Dektak 3ST Surface Profiler
- Varian Leak Testing Equipment
- Microscopes, Comparators, Misc. Test and Inspection

#### **Toolroom, Facilities and Support Equipment**

- (3) Mokon Oil Heaters
- (2) Spencer Central Vac Systems
- (3) Torit Dust Collectors to 7.5-HP
- Neslab Chillers, Quincy Air Compressors and Related
- (3) Royal Master Centerless Grinders
- Bridgeport CNC and Manual Mills
- Upgrade Tech GT-16 CNC Lathe
- Lathes, Saws, Sanders, Drills, Tooling and Accessories
- OD, Surface and Tool Grinders
- Maintenance Machinery, Tools and Supplies
- Lista Cabinets and Benches
- **VERY CLEAN SHOP AND OFFICE EQUIPMENT**

#### **18% BUYERS PREMIUM IN EFFECT FOR ALL PURCHASES**

#### **CIA ONLY**

#### **Auctioneers:**

Cincinnati Industrial Auctioneers, Inc. – License No. 2566

Jeffrey L. Luggen – License No. 1250

Joseph M. Luggen – License No. 4499

**Directions:** Auction site is off I-75 approx. 5 Miles North Downtown, Use GPS for directions.

#### **VACUUM COATERS / PLATERS**

**Airco Temescal FC-1800 Electron Beam Vacuum Coater;** s/n 66, Order No. MVE-25936, CTI Cryo-Torr8 High Frequency Vac Pump, 17” Diameter Chamber, Airco CV-10 Electron Beam Power Supply, Viewvac VV-400 Unit

**Airco Temescal FC-1800 Electron Beam Vacuum Coater;** s/n 252, Order No. MVE-26752, Missing Vac Pump, Versa Vac 2 Control, Viewvac VV-400

**S&A Model 5600 Base Plater w/ PC System**

**S&A Model 5250 Fine Frequency Plater**

**Showa SFE-90NKC Ion Frequency Tuner**

**Transat LC100 Vacuum Plating System Final Frequency Plater**

**Transat APS-ATP Final Frequency Tuner**

**Edwards Auto-306 Turbo Vacuum Coater**

**Transat TC-100 Units**

### **HERMETIC SEALING WELDERS AND RELATED**

**(2) Benchmark Gen 2 Projection / Seam Seal Welders;** s/n 0299G2-061 and 0800G2-121, 36" X 60" Two-Station Atmospheric Enclosure, (1) w/ Projection, Seam Seal Head and P6000 Power Supply, (1) w/ Projection Head and Misc. Parts Only

**KSE Kewaunee Scientific AGL Cold Welder;** 24" X 72" Two-Station Chamber, Inert Gas Purifier, Photohelic Pressure Control, Press Station w/ 10" X 12" Bed

**Polaris Accu-Weld 5000 Projection Welder;** s/n 036-000-5000-0116-10, 24" X 40" Chamber, Projection Weld Head

**Polaris Accuweld Projection Welder;** s/n A17-7951-85-795L00, 24" x 72" Two-Station Weld Chamber, Polaris Projection Weld Head w/ 8-Sta. Turret

**Peco Messer Type FP3K-1000 Vacuum Capable Resistance Welder**

**Unitek Peco 2KHZ High Frequency Inverter Welder Control with Transformer**

**Various Unitek Peco Power Supplies, Heads, Controls and Related**

**Panasonic Model HW Wire Bonder;** s/n 30WB0379, 5 KW, Control

**Benchmark Autoflow Cat No. 12-0002-000 Lid Tacker**

**Welder Heads and Components,** Benchmark Phase 3 Head, SSEC NTE One-Shot Welder Head w/ Power Supply, Benchmark KN-II Head, Branson Sigma-80 Welder, Dace Precision Microsetter MCT-22 Welder, 80 / 125 KVA and 37 KVA RO-Man Welding Power Supplies

### **PLASMA CHAMBERS**

**March PX-1000 Plasma Chamber;** s/n 9322, 15" X 15" X 22" Deep Chamber, Advanced RFX-600 Power Supply

**March PX-250 Plasma Chamber with MPS-300 Power Supply**

**LAPPING MACHINES**

**(2) MI Mitsunaga Industries Model MFLN-6B Lappers**

**(8) MI Mitsunaga Industries MFLN-4B Lappers (New to 2000's)**

**(6) MI Mitsunaga Industries MFL-3B Lappers (New to 2000's)**

**(2) CCI Model 421 Lappers (Late)**

**(7) 18" PR Hoffman Model PR-I-32T Lappers**

**(10) Howard Strasbaugh Lappers and Others Models 7J, 6SR, 6ZR, 6BR, 60 and R5Y-DC2**

**(20) Bench Top Style Lappers, Single and Dual Head, Howard Strasbaugh 6CE-2, 6BU, Coburn 604, Schafer S05-02**

**VACUUM PUMPS**

**(50) Vacuum Pumps from ¼ to 10 HP by Edwards, Leybold, Pfeiffer, Ilmvac and Others**

**ELECTRONIC TEST EQUIPMENT**

**(250+) Pcs. Electronic Test Equipment by Hewlett Packard, Agilet, Stanford Research, Transat, Saunders and Associates, Televac and Others; Signal Generators, Network Analyzers, Signal Analyzers, Oscilloscopes, Data Acquisition Units, Noise Interfaces, Spectrum Analyzers, Amplifiers, Power Supplies, Crystal Impedance Meters, See Catalog for Complete Listing**

**CRYSTAL MACHINING / GRINDING EQUIPMENT**

**Hunan Yojing Model GDB-3AA-II High Speed Crystal Champfer Lapping Machine; 160 RPM, (3) 12" X 12" Tumbling Drums**

**Dynabrade 64000 Precision Belt Polisher; Mounted on Heavy Jig Bore Base, Motorized Work Head**

**(5) Custom Built Precision Crystal Machining, Grinding and Polishing Machines, Some with CNC Controls**

### **CUSTOM PRECISION MACHINING EQUIPMENT**

**(20 +) Custom Precision Machining, Polishing, Grinding and Finishing Machines;** Most Mounted on Heavy Cast Iron Bases with Cross Sliding Rotating and Indexing Tables, High Speed Spindles

**Large Quantity Parts for Building Custom Machinery;** Spindles, Servos, Rotary and Cross Sliding and Standard Tables, with S Drives, Motors, Servos and Related Centers

**Salecnc.com Model GSK928TEII Servo Controller Set with Readout and Servos**

### **LAB EQUIPMENT**

**(2) Microlab Micro-Rinse MRS-100 and MRS-1737 Poly Construction PLC Wet Benches;** with AB Panelmate PLC

**(3) Verteq Poly Construction Single, Two and Three-Tank Computer Controlled Wet Benches**

**(4) Coburn Model Toric Surfacers Polishers**

**Verteq Superclean 1600 Dual Chamber Centrifuge**

**Logitech Anular 75 Auto Lab Saw**

**(5) Centrifuges Including Hermle Z206A, Trio-Tech G488, Trio-Tech Centrisafe G385-1B**

**Ultratech Model 602 Plate Cleaner**

**(2) Custom Ultrasonic Welders w/ Branson Power Supplies;** Custom Bases, 3" to 6" Throat

**(10) Fume Hoods and Benches from 3' to 6' Long**

**(10) Clean Room Products DGS3283 Lab Gown Lockers**

**Lab Support Equipment,** Stainless Steel Tables, Dessicator Cabinets, Stainless Valves, Piping, Vacuum Pumps, Shakers, Fireproof Cabinets and Related

### **TEST EQUIPMENT**

**Ambios Model Q-Scope 6SAB2ISO AFM Atomic Force Microscope System;** Electronic Interface Unit (New 2007)

**Zeiss Rondcom 55A Precision Rounder Tester;** s/n MA6407JV, 12" Table, Power Supply, Comes Accessorized

**Veeco Dektak 3ST Surface Profiler;** s/n 21311, Cat No. 173003

**13" Micro-Vu Spectra M1031 Optical Comparator,** Micro-VU Q-16 DRO and Control

**(20 +) Various Microscopes;** Leica Microstar IV, Sciencescope EM-BD-T3, CO-EM-600, Bausch and Lomb Stereozoom 7

**Other Test Equipment, Alvord Mfg. X-Ray, Avo Model SM-105-2 Shock Test, LFA Florod Laser Cutter Microscope, Dupont Test Equipment**

**(5) Leak Detectors, Edwards Spectron 300E, Varian Autotest 947 and 948, Varian 938-41**

**Inspection Tools, Granite Plates, Height Gages, Mics, Gage Blocks, Calipers and Related**

### **ULTRASONIC CLEANERS**

**Crest Genesis Nine-Station Ultrasonic Cleaner;** 10" X 10" X 14" (Approx.) Tanks, Touch Screen Control

**(20) Bench Top Ultrasonic Cleaners and Power Suppliers by Crest, Branson and Others**

**(3) SK Auto Dip Ultrasonic Cleaners with 22" X 14" X 24" Deep Tanks**

**Branson B400 Ultrasonic Cleaner**

**Custom Ultrasonic Two-Tank Ultrasonic Cleaner**

### **TUBE FURNACES**

**(5) Lindberg 50000 Series Electric Tube Furnaces;** Models Include 54232 with 59344 Power Supply, Model 55346, Model 54231 with 59344 Power Supply, Model 55342 with 58114 Power Supply

### **TEST CHAMBERS**

**T-M Vac Products Model SS803N14 Vacuum Chamber, 11-1/2" Diameter X 19" Deep**

**Terra Universal 5401-00-1 Vacuum Chamber, 11-1/2" Diameter X 16" Deep**

**(5) Other Mfg. Vacuum Test Chambers, Most 12" Diameter and 12" to 20" Deep**

### **OVENS AND ENVIROMENTAL CHAMBERS**

**BMA Model TA-205LN Two-Chamber Three-Zone Thermal Shock Chamber; s/n 2126, 16" X 16" X 16" Inner Dimensions, 200 Degree Celsius Operating Temp**

**Terra Universal 32" Dia. Five-Shelf Rotocator 100 Chamber**

**(30) Bench Top Electric Ovens by Blue-M and Others from 6" to 24" Chambers, Blue-M Models OV-712A, OV5-114, See Catalog for Full List**

**(10) 20" to 30" Blue-M Single Door Electric Ovens, Models DCA-206C, DCC-256C, DCI-206-E-ST350, CC04I-P-E-PR0350, (2) ESP-400A-5**

**(10) Cascade Tek Model TVO Vacuum Ovens, Model TV0-2, TV0-1**

**(10) Tenney Bench Top Vacuum Test Chambers**

**Yamamoto DX-400 Gravity Convection Oven, 16" X 16" Chamber**

### **BELT TYPE OVENS**

**12" Wide Lindberg Stainless Belt Type 841 Conveyor Furnace; s/n A010112, 60" Long Chamber, 400 Degree Celsius Max Temp (2001)**

**6" Wide Lindberg Electric Conveyor Oven, 60" Chamber**

### **FACILITIES EQUIPMENT**

**(3) PTI Process Technology Hot Water Heaters; Model TY-120-480-3-RI s/n J-T00190, Model TY-072-480-3-RI, s/n S-506318, Model Hot Shot HCT544-G-A; s/n FL107253**

**(2) Mokon THE System H44112BM Oil Heaters; s/n 64429, 500 Degree Fahrenheit Max Temp**

**(2) Spencer Central Vac Systems, 4-HP Model SYS90132 and Model 8P**

**7.5 HP Quinicy QT-7.5 Vertical Tank Air Compressor**

**Approx. 20 HP Horizontal Tank Air Compressor**

**Torit Donaldson P510800 Stainless Steel Dust Collector; s/n J0817001**

**7.5-HP Torit Donaldson DMC-D2 Dust Collectors**

**½ HP Torit 54 Dust Collector**

**(2) Neslab HX-300 Coldflow Refrigerated Recirculate Chillers**

**(3) 40' Storage Containers**

### **TOOLROOM GRINDERS**

**(2) Royal Master TG-12X4 Centerless Grinders; s/n 2364 and 1217, 4" Wheels, Power Water Dressers, Power Infeed**

**Royal Master N/C Centerless Grinder, Auto Feed Dressers, Model 172 Indexer Control**

**5" X 15" Clausing Model 4210 Plain OD Grinder**

**9" X 12" Karstens OD Grinder**

**(8) KO Lee, Harig and boyar Surface Grinders and Tool Cutter Bases**

**(2) KO Lee Model 618VH and S714 Surface Grinders with Precision Grinding Attachments**

**6" X 18" KO Lee 571BH Horizontal Feed Surface Grinder**

**10" X 20" KO Lee C1020 CNC OD Grinder Base**

**(20 +) Diamond Grinding Wheels to 12" Diameter**

**Old Royal Master – For Parts Only**

### **TOOLROOM AND MAINT. SHOP EQUIPMENT**

**Upgrade Tech Model Compact GT-16 Gang Tool CNC Lathe; s/n DL10522871, Fagor 8025 Control**



**2 HP Bridgeport Three-Axis CNC Vertical Mill; s/n 263965, Sony Control, 42" Table**

**2 HP Bridgeport Series I Vertical Mill; s/n 214679, 42" Table with Power Feed, Sony, DRO**

**15" X 50" Clausing Model 1500 Engine Lathe**

**12" X 36" South Bend G-26T Engine Lathe**

**7" X 12" Central Machinery Bench Top Lathe**

**36" X 36" Clemco Zero Pulsar Blast Cabinet with Dust Collector**

**18" Grob 4V18 Vertical Band Saw with Blade Welder**

**(2) Hardinge HSL-5C Speed Lathes**

**LOH Type LH-80 Lap Cutter; s/n 6061, DRO, PB Control**

**Autoflow 333384 Mill**

**(2) Moore Model No. 3 Jig Bores; s/n B1468, 11" X 24", (1) Head Only**

**Other Misc. Machinery, 5" X 10" Jet Saw, 20" Clausing Drill, Coburn 303 Lathe, Various Grinders and Sanders, Di-Arco Hand Fabricating Equipment**

**Machine Accessories and Tooling; (3) Precise Jig Grinding Heads, Vises, Rotary Tables, Chucks, Collets, Angle Plates, Jet-Up Blocks, Perishable Tooling and Related**

### **SHOP AND SUPPORT EQUIPMENT**

**Large Quantity Very Clean Shop Equipment; (15) Various Style Lista Tooling Cabinets, Lista Workbench Style Cabinets, Stainless Steel Assembly Tables, Fireproof Cabinets, Formica Top Assembly Tables, Stainless Steel Locker Units, Pallet Trucks, 2-Door Cabinets, Carts, Hand Tools, Building and Machine Maintenance Supplies, Carts, Pallet Trucks, Racks, Shelves, Cabinets and Related**

### **OFFICE FURNITURE**

**(100+) Lots Office Furniture and Equipment, Conference Room Set, Training Room, Wood and Metal Desk Sets, File Cabinets, Chairs and Related**