



## Equipment Surplus to Ongoing Needs of Northwest Airlines

**Tuesday & Wednesday  
August 29 & 30, 2006**  
**5101 NORTHWEST DR. BLDG. B**

**Thursday & Friday  
August 31 & September 1, 2006**  
**7500 AIRLINE DR. - BLDG. C  
HANGAR 6**

**Both Addresses Are Located at Minneapolis/St. Paul Int'l Airport**

**Absolute Auction**

**Starting At 9:00 A.M. All 4 Days  
Sales Site Phone: 612-726-8720**

**AUCTION PARKING:**  
Note; Both Sale Site Locations Are In A Secure Area  
**ALL AUCTION ATTENDEES MUST PARK IN THE FOLLOWING AREA:**  
Minneapolis /St Paul Airport (North Post Rd), Employee Lot B Directions to Parking Lot: From I-494 Take 34th Ave (Humphrey Terminal) Exit Go North Approx. 1 Mile to E-70 ST (Post Road) Turn Right Go Approx. 1/2 Mile Parking Lot on Left Watch For Signs. Bus Will Shuttle You to Auction Sites

**OPEN HOUSE & INSPECTION**  
Monday August 28th from 9:00 Am – 5:00 Pm  
You Must Park in Auction Parking Area for Open House Also, Bus Will Shuttle to Auction Sites

**AIRLINE CONNECTIONS:**  
All Major Airlines into Minneapolis – St Paul Int'l Airport Rental Cars Available There

**STARMAN BROS. AUCTIONS INC.**  
1240 Royal Drive ■ Papillion, NE 68046-2082  
(402) 592-1933

**STARMAN BROS. AIRLINE SERVICES, INC.**  
9000 NW 15TH STREET ■ MIAMI, FL 33172  
(305) 477-6865

**MINNEAPOLIS HOTELS**

Hotel Headquarters Ramada Inn 952-854-1771	Courtyard by Marriott 952-876-0100 651-452-2000
Amerisuites 952-854-0700	Comfort Inn 952-854-3400
Holiday Inn Select 952-854-9000	Grand Lodge 952-229-5700
Candlewood Suites 612-869-7704	Americ Inn 612-869-8600
Microtel Inn 952-854-6600	Embassy Suites 952-854-1000
Fairfield Inn & Suites 651-454-1978	Hilton 952-854-2100
Quality Inn & Suites 952-854-5558	Homewood Suites 952-854-0900
Residence Ins 952-876-0900	Holiday Inn Express 952-854-1687

Note: All Hotels are within a 2 mile radius from the sales site

# SALE ORDER

## **TUESDAY, AUGUST 29TH**

Hydraulic Test Benches, CSD/IDG Benches, Measuring Equipment, Back & Down draft Booths, Balancing Machines, P&W JT-8 & JT-9 Tooling, APU tooling, Engine Bearing Room, NDT Equipment, Saws, Dust Collectors, Arbor Presses, Drill Presses, Surface Plates, Fuel Test Benches, Turbine & Compressor Blade Riveters

## **THURSDAY, AUGUST 31ST**

Press Brakes & Sheet Metal Equip., Vertical & Horizontal Saws, Electric Ovens, Blasting Cabinets, Drill Presses, Aircraft Jacks, Welders, Lift Tables & Stands, Slide Raft Packing Fixtures, Air Conditioning Carts, Misc. Shop Equip., Dust & Smoke Collectors, Aircraft Docks & Maintenance Stands, Aircraft Servicing Equip., Window Polishing Equip., Aircraft Tooling

## **WEDNESDAY, AUGUST 30TH**

Horizontal Boring Mills, Vertical Milling Machines, Vertical Turret Lathes, Lathes, Milling Machines, CNC Turning Centers, Welding & Plasma Spray Equip., Pneumatic Test Cells, Sheet Metal Equip., Degreaser Line & Cleaning Equip., EOM Machines, Grinders, Wheel & Brake Shop, Engine Arms Water-jet System, Overhead & Jib Cranes

NOTE: Blasting Booths, Furnaces & Ovens, Misc. Shop Equip, Shelving Benches & Cabinets Will Be Sold Thru-Out Both Days

## **FRIDAY, SEPTEMBER 1ST**

Avionics Test Equipment, ATE Bench, X-Ray Equipment, NDT Equipment, Tooling & Hardness Testers, Hand Tools & Test Sets, Commercial Lawn Mowers & Trailer, Cabinets, Racks Shelving, Mail Carts

**NOTE: This Sale Order Should Be Used As A Guide Line. There May Be Some Overlapping Of Items. We Will Be Running 2 Selling Rings At Various Times On The 2nd & 3rd Days. COME PREPARED.**

## **AUCTIONEER'S NOTE**

Northwest Airlines has downsized several of their back Shops and have contracted with Starman Bros. Auctions, Inc. to sell certain assets surplus to their ongoing needs at Public Auction. This auction will consist of some very good Overhaul Equipment, Machine Shop Equipment & Ramp Equipment. Everything Sells "AS IS" "WHERE IS" "AS AVAILABLE" "WITH FAULTS" with no warranties implied or expressed. Neither the auctioneer nor the Owners shall be liable for any incorrect description, fault or defect. Although all information is deemed to be from reliable sources prospective buyers are urged to inspect all items prior to bidding. Everything Positively sells to the highest Bidder. Payment must be made in full day of sale. No property removed until settled for. Auctioneer is not responsible for accidents or stolen property. All counts are subject to change.

## **REMOVAL & RIGGING**

Once an item is Sold, the winning bidder is responsible for its removal. Any cost, responsibility, and Risk of Removal of Purchases Remain with the purchaser. Removal may begin after payment in full and must be completed by the posted deadline. NO EXCEPTIONS OR EXTENSIONS. Starman Bros. auctions is not a Rigging Company. Various Rigging Companies will be on site to offer Quotes and/or do loading. Any Equipment that requires disconnection of any type must be done by rigger. Any riggers used by the purchaser will be required to provide a Certificate of Insurance. It will be the purchaser's/Riggers responsibility to restore/repair all real or personal property that is altered or damaged as a result of the removal.

## **PROXY BIDS**

If you cannot attend this auction, we will bid on your behalf. For Information call Starman Bros. at 402-592-1933 or go to our web site at [www.starmanauctions.com](http://www.starmanauctions.com) and click on Upcoming Auctions, then scroll down to Proxy Bid Form.

## **PAYMENT TERMS**

Cash, Cashiers Checks, Traveler's Checks, Certified Funds or Company Check ONLY IF ACCOMPANIED BY BANK LETTER OF GUARANTEE! NO EXCEPTIONS! Wire transfers will be Accepted with a 20% NON-REFUNDABLE Deposit Made in One of the Forms Listed Above. Payable Day of Sale. We Also Accept MasterCard & Visa. There is an additional Charge of 3% applied to all Credit Card Transactions. This is in addition to the 5% Buyers Premium. EVERYONE Must Make Full Settlement on Day of Sale.

**NOTE: A 5% BUYERS PREMIUM WILL APPLY TO ALL PURCHASES AT THIS AUCTION.**

# Selling Tuesday, August 29 - Starting at 9:00 A.M.



REF Oil Cooler Test Stand



JT-8 & JT-9 Transport Carts



(2ea) Greer Hyd Test Benches



ACL Mdl 4747 Hyd. Test Stand



REF Mdl. JHCT-1 Hyd Test Stand



Anti Skid Test Stand

## HYDRAULIC TEST BENCH'S

Vickers Mdl SKA-1718-85 Hydraulic Pump Test Stand  
 Habco Mdl 4082002 Oil Flow Bench S/N 5608, Mfg "94", w/CTE 6050 Computerized Control Panel Has Oil Temp & Press Controls & Several Test Fixtures  
 ACL Mdl 4747 Hyd Test Stand, S/N 1011, Has High, Medium & Low Output Ports, Flows 70 GPM @ 4000 PSI w/ACL Mdl 4717 Flow Control Panel  
 REF Dynamics Mdl JHCT-1 Hydraulic Test Stand: Single System Flows 30 GPM @ 3000 PSI w/Updated Flow Data RT-800 Flow Computer & ACL 4717 Flow Control Panel. Also Has Drive Systems to Test Hyd. Pumps & Motors, Max Speed of Drive for Testing Pumps: Low 3320-6740 RPM  
 Greer Hydraulic Mdl 10SE3V-20VB Dual system Hyd Test Bench: Flows up to 20 GPM @ 4000 PSI, has Updated Flow Data RT-8000 Series Flow Computer & ACL Mdl 4717 Flow Control Panel  
 Greer Dual System Hyd. Test Stand: Flows up to 15 GPM @ 3000 PSI, Has Flow Data RT-8000 Flow Control Panel  
 Sunstrand Mdl GTSC-200 CSD Governor Test Stand

REF Dynamics Mdl JOCTR-1 Oil Cooler & Temperature Regulator Test Bench w/ Flow Rate up to 25 GPM & Temp Controls up to 250 Degrees  
 ACL Mdl 4747 hydraulic Test Stand: Flows 10 GPM @ 4000 PSI  
 Shop Built Oil Filter Test Bench: Flow Range 0-25 GPM, Measures Diff Press up to 60 PSI  
 Anti Skid Test Bench, 4 Port Systems, Up to 6000 PSI System Pressure Skydrol w/Flow Chart Data RT-8000 Flow Control Meter S/N 106  
 ACL Image 2000 Servo System Test Stand w/ACL Mdl 9740-0044 Control Console & Shop Built Actuator Test Fixture  
 Crane Mdl 97-001A Hydro Mark II Press, Control Valve Test Stand w/Yokogawa 3023 XY Chart Recorder  
 Aero Quip MDL F-2051 Hose Assy Machine Line Sizes - 10 Through - 48.  
 Aero Quip MDL F-2328N2 Hyd Hose Test Bed Length 10', OTO 10,000 PSI.  
 Cenco Rotary Snubber Test Bench  
 Blackhawk MDL P182 High Press 5606 Hyd Pump  
 Good Selection Of Hydraulic Component Overhaul Tools and Fixtures.

## CSD/IDG TEST STANDS

Avtron MDL K-738 CSD/IDG Test Stand, 300 Hp Motor 1000-2700 RPM Gear Box Speed Increaser Ratio 5.65 To 1 Max Output RPM 15,000 Has Avtron Advantage 32 AC To DC Power Converter Panel & Avtron DI4882 Control Panel W/ Yokogawa OR100E Oscillographic Recorder.  
 Avtron MDL K-738 CSD/IDG Test Stand 300 Hp Motor 1000 To 2700 RPM, Speed Increaser Ratio 1.0 To 5.65, 15,000 RPM. Has Reliance Max Pak Plus Power Supply, Avtron D17666 Control Panel W/ K731 Transient Recorder and Tektronic 2213A Oscilloscope  
 Avtron D31236 Demag/Remag Unit.  
 Excide Electronics MDL 4080 100/ P3 KVA Uninterruptible Power Systems  
 Avtron MDL T-873 CSD/IDG Test Stand, 300 Hp Motor 850 To 2125 RPM, Speed Increaser Ratio 5.65 To 1, 12,000 RPM Has Avtron Advantage 32 AC To DC Power Converter Panel, Avtron D10510 Control Panel W/ T103 Load Bank  
 Westinghouse P/N 962 C00L Generator Test Stand, Hp Drive Motor, Single Pad Gear Box 1 to 3 Ratio, 11,348 RPM, W/ Avtron T-143 Load Bank 90 KVA AC and 500 Amp DC W/ Avtron K225 Modulation Meter  
 Westinghouse P/N 962C00L Generator Test Stand, 110 Hp Drive Motor, Single Drive W/ Dual Head Gear Box Adapter, Avtron MDL T-143 Load Bank 90KVA AC and 500 Amp DC W/ Avtron Advantage 32 AC To DC Power Converter Panel

## MEASURING EQUIPMENT

Starrett Mdl RGDC 6460-40B Bridge Type Coordinate Measuring Machine, S/N SD5253, 6' x 8.5' Granite Table, 14" Thick, XYZ Axis, Starrett Apogee Software Program, Reinshaw Mdl PHC10-2 Probe Head Controller & PI-200 Probe Interface, Several Spare Probes, Dell Computer System  
 DEA Mdl Iota Mdl 1203 Bridge Type Coordinate Measuring Machine S/N M1203267, XY & Z Axis, Table Size 7.3"L x 4'6" W x 16" Deep, AAA Granite  
 Mitutoyo MDL PH-3500 Profile Projector. S/N 650133 W/Mitutoyo Micropack 2 Digital X, Y Readout Controller.  
 Nikon Mdl MM40 Measure scope w/ Metronics Quadro-Check 2000 XY Axis Controller & Digital Readout  
 Optical Comparator W/ Flats Several Surface Plates.  
 Standard 8000 Series Smart Electronic Gauge Column w/4 Electronic Bore Gauges  
 Brown & Sharpe Centering Fixture



ACL Image 2000 Servo System Test Stand



1 of 2 Westinghouse 110 Hp Gen. Test Stands



1 of 2 Westinghouse 110 Hp Gen. Test Stands



1 of 2 Avtron K-738 300 Hp CSD/IDG Test Stands

## BACK & DOWN DRAFT BOOTHS

(4ea) Donaldson Torit Backdraft Booths Mdl ECB-3 11'W x 7 1/2' D  
 Donaldson Torit Mdl TDDB 5000 Down Draft Table 6'W x 4'D

(2ea) Binks Dual Filter Backdraft Booth 8' W x 6' D  
 Solvent Booth 8' W x 4' D x 14 w/ Roller Table

## BALANCING MACHINES

Schenck Mdl RL 50UB Horizontal Balancing Machine, S/Narh0022, Mfg "70", rotor Weight range 50-4500 Lbs, Max Weight Per Pedestal 3000 Lbs, Max Rotor Diameter 118", Bed Length 206", Center Line Distance 146", 75 HP, w/ GAB 640 Control Head & Color Video Data Monitor  
 Schenck Mdl RLUB Horizontal Balancing Machine, S/N 0165, Rotor Weight Range 22-2200 Lbs, Max Weight Per Pedestal 1500 Lbs, Max Roto Diameter 63", Bed Length 138", Center Line Distance 96", 30 HP w/Schenck Mdl 690R Control Head  
 Schenck Mdl VE4L Vertical Balancing Machine, S/N AVF8509, Mfg "98", Wt. Range 11-330 Lbs, Shroud Inside Diameter 62", 10 Hp Drive w/Cab 690 Control Head & Video Data Monitor

Schenck Mdl VE40L Vertical Balancing Machine, S/N AVF 8508, Mfg "98", Wt Range 22-660 Lbs, Shroud Inside Diameter 62", 10 Hp Drive w/Cab 690 Control Head & Video Monitor  
 Schenck Mdl VE40L Vertical Single Plane Balancing Machine, S/N AVF0077, Mfg "85", Weight Range 22-660 Lbs, Shroud Inside Diameter 72", 10 Hp Drive w/ Schenck Mdl M-485 Vector Meter  
 Hoffman Mdl HD-16.1J Horizontal Balance Machine, S/N 97-4-029, Max Rotor Wt. 180 Lbs, Max Rotor Diameter 19", Bed Length 48", Speed Range 60-6000RPM w/Hoffman Polar Graphic Control Head & Monitor  
 Schenck Type R1 Balancing machine Rotor Weight Range 0.2 - 22 Lbs, Distance Between Support 0.6 - 15.05 ", rotor Diameter Max 14.2 ", Standard Bed Length 20" w/Schenek Cab 690 Control Head

## P&W JT-8 & JT-9 TOOLING

(2 ea) Edge Profile Mdl. 900B Comparators For Engine Blades  
 Able AMI Series M Blade Balancer For Engine Blade Classifying  
 (12 ea) Compair JT-9 1st Thru 5th Stage Turbine Vane  
 (9 ea) P&W JT-9 Deflection Gauges 4th Thru 6th Stage  
 (13) JT-9 Turbine Blade Calibrated Standards  
 Several JT-9 Blade & Vane Clamp Fixtures  
 PWA LPT Cross Notch Inspection Fixtures  
 JT-9 LPT Shaft Transport Carts  
 JT-9 Intermediate Case Transport Carts & Build Stand  
 (2 ea) JT LPT & HPC Hydraulic Build Up Fixture Sunken in Pits  
 Keyence LS-3100 JT-8 Fan Blade Measurement System  
 Sample List of Tooling Includes: Pullers, Gauges, Lifting Fixtures & Slings, Measuring Bars, Bearing Pullers, Large Selection of Sweeny Tools Y fixtures, Enerpac Pumps, Adapters, Build Fixtures Sockets, Pressure Testers, Wrenches, Drifts, Go No Go Gauges, Supports Dial Indicator Fixtures, Test Fixtures, Stretch Gauges, Holders, Ring Gauge Standards, Slide Hammers, Gland Nut Sockets, Torque Adapters

FIXTURES: There is a Very Large Amount of Milling, Drilling & Holding Fixtures For The Machine Shop as Well as Several Fixtures For The Welding Shop & Heat Treat Fixtures These Will Be Sold Throughout The First 2 Days.  
 BALANCING FIXTURES: Sevril JT-8 & JT-9 Balancing Fixtures.  
 Note: For a More Complete List of The Tooling By Part # & Description Go To Our Web Site www.starmanuctions & Click On Upcoming Auctions.

## APU TOOLING

Large Selection of Overhaul, Build Tooling for the Following Types of APU's 660, 700, 331 & -85 Series. Will Include: Pullers, Drivers, Holding Fixtures, Measuring Fixtures, Etc.

APU Transport Carts  
 Rotating Build Stands, Blade Riveters  
 (4 ea) APU Test Cell Stands w/Test Pipes & Flow Pipes



Aero Quip Hose Press Test Bench



# Selling Tuesday, August 29 - Starting at 9:00 A.M.



Schenck Mdl. RL54B Horiz. Balancer



1 of 2 Schenck Vertical Balancers



P&W Turbine Blade Riveters



Hoffman Mdl., HD-16 Horiz. Balancer



Schenck Mdl. RL-50UB Horiz. Balancer

## MACHINE SHOP TOOLING

200+ Wilton & Misc. Bench Vices  
Large Selection of 50 Taper Milling Holders & Tools

Several Bench Grinders  
Large Selection of Cat 40 Taper Milling Holders & Tools

Wohopper Boring Heads, Kurt Milling Vices, Collet Sets, Milling Trees, 3 & 4 Jaw Chucks, & Face Plates, Tool Holders & Cutters, Several Reamers, Boring Bars, Tool Post Grinders, Milling Cutters, Rotating Tables, Ring Gauges, Grinding Stones, Dial Bore Gauges, Standards, Centers, Chucks, Optical Flutes, Machine Repair Parts, Gauge Blocks, Etc.

## ENGINE BEARING SHOP

Cenco Bearing Seal Pressure Test Bench w/Several Fixtures  
Cleveland Mdl. 1000 3 Head Lapping Machine w/40" Table & Auto Slurry Dispensing System  
Lapmaster Mdl. 24 Lapping Machine w/Auto Slurry Dispensing System  
Lapmaster 3636 Lapping Machine w/Auto Slurry Dispensing System  
Spitfire NP-1705-18 Lapping Machine

DEA Swift Mdl. A001 Coordinate Measuring Machine. X Axis 28", Y Axis 20", Z Axis 13" w/Renishaw Probe & Computer System  
(3) P&W Bearing Run Out Check & Test Fixtures  
Large Amount of Precision Tools, Microscopes, & Special Tools  
Bearing Cleaning Room Equip

## NDT EQUIPMENT

Magnaflux Mdl Ad-945L AC/DC 10' Magnaflux Bench w/Demag Ring 4000 Amp Output AC, 5000 Amp Output DC S/N 200445  
Magnaflux Type DRC-543 Magnetic Partial Inspection Bench. Out Put Current AC, Max 3000 Amps 6' Bed  
(2ea) Zyglol Die Penetrant Inspection Lines, 66' Long, w/ 2ea Zyglol Mdl ZL-4860A, Dip Tanks, 55" W x 55" Deep x 27" Mill, Zyglol Mdl ZD-48120A Dryer, Zyglol Mdl ZP-4860 Developer Booth & Roller Table, Black Light Booth  
Zyglol Die Penetrant Inspection Line, 38' Long w/ 3ea Stainless Steel Tanks, 43" Wide, 43" Deep x 28" Tall, Black Light Booth & Roller Tables  
Magnaflux MDL ZA-28 Zyglol Inspection Line, 12' Long 2 Dip Tanks, Rinse Bay, Dryer, Developer Tank & Black Light Booth

Magnaflux Type NO-242 3" DC Magnaflux Table 500 De-continuous, 1800 Intermittent w/ 2", 4" & 6" Magnetizing Coils S/N 57283  
Magnaflux Type L-2152 DC, Magnetizing Table, 2000 Amp Max Output w 2", 4", 6", 8", & 12" Magnetizing Coils S/N 59985  
Magnaflux Type SB-2824 Demag Table w/ 29" Ring  
Magnaflux Mdl X-2152 6000 Amp DC 5 1/2 Magnetizing Table S/N 88578  
Magnaflux Blacklight Table Type T0-3348 S/N 59998  
Magnaflux Type TN 3696 Zyglol Table 8'L x 3W x 3D S/N 59727  
(2ea) Magnaflux Black Light Booths

## SAWS

Powermatic Mdl 87 Vertical Band Saw S/N 9987009, 20" Throat Tilttable Table

DoAll Mdl C-1213A Hyd Horizontal Cut Off Bandsaw 6' Roller Table  
DoAll Mdl ZW -3620 Vertical Band Saw, S/N 31-602004, 36" Throat



Sustrand CSD Governor Test Stand



Magnaflux Type DRC-543 Bench (NDT)



ACL 10 GPM, 4000 PSI Hyd Bench



Aero Quip Hose Bench



1 of 2 Advance Tab Riveters



JT-8 & JT-9 Tooling



JT-8 & JT-9 Tooling



Avitron Mdl. D19562 APU Fuel Control Bench



Vickers Mdl. SKA-1718 Hyd Pump Test Stand

## DUST COLLECTORS

(2ea) Torit Mdl 81, 1 1/2 HP Dust Collectors  
Several Airflow Systems Mdl Mini-Pac Exhaust Fume & Air Cleaner

Torit Mdl 64 Dust Collector  
Sternvent Mdl DG203 Dust Collector  
Chafco Mdl A6 Dust Collector

## ARBOR PRESSES

25+ Arbor Presses, Range from 1/2 - No 3, To Include: Dake, Famco & Greenard

## DRILL PRESSES

Ikeda Mdl RM-1375 Radial Arm Drill S/N 83068 5' x 13" Column, 4' x 4' Table 30 to 1500 RPM Spindle Speed, 9 Feeds  
AMT Mdl 5171 1HP 12 Speed Radial Bench Top Drill Press  
Clausing Mdl 1686 Variable Speed Drill Press Bench Top

Walker Turner Mdl 65-250 Ram Type Radial Drill, 175 - 8200 RPM Spindle Speed  
Wilton 15", 12 Speed Drill Press  
Delta Mdl R9451 Variable Speed Radial Bench Top Drill Press  
Approx. 10 Various Drill Presses, Most are Floor Models 15' & 20" To Include: Clausing, Walker Turner, Delta etc.

## SURFACE PLATES

Herman Stone Number 23340 Granite Surface Plate 44" W x 44L x 11 Thick  
Rock of Ages Granite Surface Plate, 6'W x 4'D x 12'H

Starrett Granite Surface Plate 24 x 24 x 4  
Approx. 12 Other Surface Plates, Sizes from 24" - 3'x4'

## TURBINE & COMPRESSOR BLADE RIVETERS

(2ea) Advance Mdl ADTB1, Universal Tab Bending & Riveting Machine, S/N 28, Disc Diameter Swing 9.5" Minimum - 42.5" Maximum, Bed Travel 1.5" Min - 42.5" Max  
(3ea) P&W turbine Blade Riveters

**NOTE: A 5% BUYERS PREMIUM WILL APPLY TO ALL PURCHASES AT THIS AUCTION.**



Drill Presses



Drill Presses



Vickers Mdl. SKA-1718 Hyd Pump Test Stand

**Selling Tuesday, August 29  
Starting at 9:00 A.M.**



Hubco Mdl. 4082002 Oil Flow Bench



Greeve & Johnson Ovens



Bauer Mdl. 1538017 Fuel Control Test Stand

## FUEL TEST BENCHES

Bauer MDL 1538017 Main Fuel Control Test Stand. Mfg In "91" S/N 2086. Has Low Press High Volume Boost Fuel Supply Capable of Providing 45,000 PPH @ 50 PSIG, and Low Volume High Press Supply Circuit Capable of 43,750 PPH @ 1600 PSIG, Boost Pump and Motor 10 Hp. Cap 120 GPM, Has (5ea) High Pressure Pumps and Motors All are 40 Hp W/ Cap Of 8750 PPH and Press Of 1600 PSI @ 3500 RPM, Has Druck Press Controller and Calibrator and Daytron System 10 Data Pac Monitoring System

United Technologies MDL JFC-104-1 Digital Read Out 757 Fuel Control Test Set.

Bauer MDL 1034010 Fuel Pump Test Stand. S/N 30570 Mfg "99" Capabilities Include, JT-9 JT-8 Main Fuel Pumps, JT-9 and JT-8 P & D Valves, Ham. Stan Stator Vane Actuators, Ham. Stan Bleed Valves Actuators TT-2 Sensors Etc. Has 200 Hp Variable Speed Drive Motor W/ ADA 2000 Computer Control Systems and Neff System 470 Data Acquisition System

Central Engineering Fuel Controller Test Bench, Capabilities Include JT8-D, JT9D-7A and 7Q Fuel Controllers and 98, 660 and 700 APU Fuel Controllers. Dual Fluid Control Systems W/ Flow Ranges From 57 To 40,000 PPH. Has (5ea) High Press Pumps and Motors 20 + 25 Hp, Boost Pump Motor is 7.5 Hp and 110 Gal Per Min Pump. Has Druck DPT -530 Press Controller and Has Updated Flow Tech, Flow Computers & Turbines.

American Avitron MDL D19562 Airsearch APU Fuel Control and Pesco Fuel Pump Test Bench S/N 07924 Mfg "74" For Testing CPCP 85, 90F and 98D APU Fuel Controls and CV-580 APU Fuel Pump, Lo Flow 11 to 110 PPH High Flow 57 to 5700 PPH W/ Updated Flow Tech. Flow Computers and Turbines.

Meriam MDL D-22140 Fuel Controller Test Stand S/N TP32-1 Bench Flow Rate 380 to 38000 PPH. Has (4) High Press Pump W/ 20 Hp Motors Pumps Produce 8,000 to 9,000 PPH Boost Pump 110 GPM, Has Updated Parker Hannifin Flow Computers Valve and Flow Tech. Flow Computers & Turbines, Druck DPI-530 Press Controller.

Meriam MDL D-22272 Fuel Pump Test Bench: Capabilities JT8 and JT9 Fuel Pumps, P&D Valves, Tescom and Apco Regulators, Bench Will Flow 380 to 40,000 PPH, Has American Avitron MDL 18241 Drive Unit Bench Has Updated Flow Tech Flow Controllers and Turbines

Testek MDL 101887 Fuel Accy Test Bench S/N 2402, 3 Station Bench, Mfg "98" Station 1 High Press Fuel Pump 13.8 to 3050 PPH Station 2 (1) High Press Pump 360 to 36,000 PPH (1) Low Press Pump 11.4 to 5700 PPH Station 3 Press Test Only 950 to 95,000 PPH W/ Meriam Fluid Bench, Has Updated Flow Tech. Flow Controller and Turbines, Was Used For Fuel Transmitters, Transfer Pumps, and Fuel Valves

Parker Hannifin MDL 67012018 Fuel Nozzle Test Stand, for JT8, JT9 and APU Nozzles W/ Bauer Model 1089011 Fuel Nozzle Spray Chamber Mfg "97"

ACL MDL 4736 Engine Vane Control Test Stand Press: 1500 PSI Flow: 6000 PPH Temp 90 Degrees F @ 15 GPM Water Updated W/ Flow Tech. Flow Controllers and Turbine

ACL MDL 4721 Fuel Control Test Bench, For JT8 and JT9 Fuel Controllers, W/(5ea) High Press Pumps and Motors, Boost Pump and Motor 7.5 Hp, 130 Gal Per Min. Has 2 New Parker Hannifin Flow Control Valves and is Updated With Flow Tech. Flow Controllers and Turbines

Ref Dynamics Small Fuel Component Test Bench up to 1500 PSI

Shop Built Press Switch Test Bench, High Press up to 3000 PSIA

Hamilton Standard MDL JFC 131 Electrical Test Panel

Parker Vane Control Actuator Test Stand

Hipotronics MDL H300B Series Hipot and Megameter, Hipot MDL HD 100 Series Hipot Tester.

Vapor Blast. MDL VBLH-4836 Liquid Honing Machine Cabinet 40" X 40" X 48"

Pillar Mdl GP-1K, 3 Tank 2.5 Gal Ultra-Sonic Cleaning Line W/pillar Rectifiers.

Better Engineering MDL 200 HDSS Rotating Basket, Hot Water Washer, 28" Diameter Basket.

Good Selection Of Fuel Component Tooling and Test Fixtures.

## MAJOR PLATING SHOP

(8 ea) Plating Line w/Various Amounts & Sizes of Tanks  
Tanks Include: Nickel Electroless, Nickel Strike, Phosphate, Water Rinse, Sulfuric Acid Etch, Copper Strike, Cyanide Water Rinse, Cadmium Strip, Chromate, Irridate, Hydrochloric Acid Etch, Sulfamate Nickel & Chrome Plate.  
Brand Names of the Rectifiers & Power Supplies Include Rapid, Aldonex & Dana Power



Parker Hannifin Fuel Nozzle Test Bench



Testek Mdl. 101887 Fuel Accy Bench



ACL Mdl. 4721 Fuel Control Test Bench



Progressive Tech CNC Robot Shot Peen



Landis 25x92 Universal Grinder



Bethiez Mdl. BM-160 Vert. Turret Lathe



Ikeda Radial Arm Drill

**Selling Wednesday, August 30 -  
Starting at 9:00 A.M.**



Central Engineering Fuel Control Test Stand



Meriam Mdl. D-22272 Fuel Pump Test Bench



APU Test Stands

## HORIZONTAL BORING MILLS

Kearns & Richards Mdl KHT 130L CNC Horizontal boring Mill 5", S/N 8000-90, Mfg "91" w/Siemens Sinumerik System 8MC, 5 Axis CNC Controller, Traversing Spindle Diameter 5.1", Spindle Traverse 2 Axis 35.4", Vertical Traverse Y Axis 59", CNC Facing Slide Traverse U Axis 59", 7.48" Work Table, Longitudinal Traverse W Axis 61", Traverse X Axis 118", 48 HP Main Drive, CNC Facing to Boring Head 1-224 RPM, Traversing Spindle 5-1500 RPM, Flood Coolant System, Bed Size 48" x 80", 6 Slot Work Table, T Type Bed Configuration w/Sliding Covers

Lucas Mdl 30 DCS75 CNC 3 Axis Horizontal Boring Machine, Spindle Diameter 5", Spindle Taper #50, Spindle Longitudinal Travel 36", Head Vertical Travel 60", Table Cross Travel 84", Table Dimensions 48" x 110", Saddle Retraction & Feed 48", 40 Hp Spindle Drive Motor, Retrofitted w/Giddings & Lewis 8000 CNC Controller

Lucas Mdl 542B120, 5" Horizontal Boring Machine, 3 Axis, Spindle Diameter 5", Spindle Taper #7 Morse, Spindle Longitudinal Travel 36", Head Vertical Travel 72", 56" x 122" - 10 Slot Work Table, Table Cross Travel 20", Saddle Retraction & Feed 56", 26 Spindle Speeds, Speed Range 10-1220 RPM, 25 Hp Drive Motor

Woton Mdl B-1055 Table Type Horizontal Boring Mill, S/N 40037, Boring Spindle 4 1/8", Spindle Taper ASA-50 Headstock: Spindle Longitudinal Travel 27.5", Vertical Travel 49", Number of Speeds 21, Speed Range 9-1000 RPM, Table 43" x 55", 360 Degree Rotating, Cross Travel 71", Longitudinal Travel 49" w/Accurite W,X,T,Z Digital Readout

Lucas Mdl 441B-48 Horizontal Boring Machine, 4" Spindle Diameter, Spindle Longitudinal Travel 24", Head Vertical Travel 48", Saddle Retraction & Feed 48" w/Accurite XYZ Digital Readout Machine S/N 4182706

Lucas Mdl 42B-60 Horizontal boring Mill: Spindle Diameter 4", Spindle Longitudinal Travel 36", Head Vertical Travel 48", Table Dimensions: 40" x 74", Table Cross Travel 48", Saddle Retraction & Feed 53", - 1220 RPM, 20 Hp w/Digital Readout

Woton Horizontal boring Machine, Spindle Diameter 4 1/8", Spindle Taper 50", Boring Spindle Longitudinal Travel 27.5", Headstock Vertical Travel 49", No of Speeds 21, Speed Range 9 - 1000 RPM, Table Size 43" x 55", Range of Rotation 360 Degree, Cross Travel 71", Longitudinal Travel 49", XYZ Digital Readout

## VERTICAL MACHINING CENTERS

Sharno Mdl SVC-80 CNC Vertical Milling Center, Table Work Surface 82.9"x33.9", Longitudinal Travel X Axis 80.7", Cross Travel Y Axis 36.2", Vertical Travel Z Axis 28" Spindle Taper BT50, Spindle Speed 10-360RPM, Tool Capacity 20 w/Sharno Control Head & Tiger 6 Software; Will Include Sharno Laser Digitizing System S/N 389128007

Ex-Cell-O Mel 508 CNC Work Center 5 Axis, Tool Changer Cap 60, Table Longitudinal Travel, (X Axis) 72", In & Out Z Axis 36", Spindle Vertical Travel Y Axis 48", Dual Tables 40"x40 360 Degree Rotating w/additional 5th Axis 360 Degree Rotating Table, #50 Taper Spindle, Machine has been Retro Fitted w/Giddings & Lewis 8000B Controller Machines S/N 508-046

Toshiba Shibaura Mdl VMC-45 CNC Vertical Machining Center S/N F0633991-11, Mfg. "85", Tool Changer Cap, X Axis Travel, Cat 40 Taper w/Tosnuc 600 M CNC Control Panel

Giddings & Lewis Mdl 25VS CNC Vertical 3 Axis Vertical Machining Center, Spindle Drive Motor, 25 Hp, Spindle Taper #50, Spindle Speeds 40-4000 RPM, Tool Changer Cap 80, X Axis 80", Y Axis 40", Z Axis 40" w/G&L 8000 Computer Controller, Jorgensen Chip Conveyor w/Digitizing Capabilities, Also has 4th Axis Rotating Table

Ex-Cello Mdl 492 Tool Presetter for 50 Taper Tools, S/N215 w/Accurite XZ Digital Readout & Master Bar

## CNC TURNING CENTERS

Wasino Mdl LJ-103M CNC Turning Center, S/N 00Z, 3 Axis, Swing Over The Bed 17", 40" Between Centers Variable Speed Spindle 10-3500 RPM, X Axis Travel 9 1/2", Z Axis Travel 40 1/8", Rapid Traverse X Axis 315 IPM, Z Axis 394 IPM, C Axis 22.2 RPM, 12 Station Drum Turret, 6 Turning 6 Milling w/ FANUC Systems 10T-A Controls & Software

Cincinnati Milacron Hawk 200 CNC Turning Center S/N 7059-A00-98-0068 w/ Acramatic 2100 CNC Control Panel, 2 Axis x Axis Travel 245MM, Z Axis Travel 540MM, Spindle Speed 4500 RPM w/Jurgensen Conveyor



# Selling Wednesday, August 30 - Starting at 9:00 A.M.



Monarch Type 25 P Gap Bed Lathe



G&L 60" CNC Vert. Turret Lathe



LeBlond 19"x39" Gap Bed Lathe



Toshiba Shibaura VMC-45 CNC Vert. Machining Center



1 of 2 Turri T-300-SB Sliding Gap Bed Lathes



Wasino LJ-103M CNC Turning Center

## LATHES

Dean Smith & Grace Monarch Type 25P, 25 x 125 Oil Country Gap Bed Lathe Swing: 26 1/2", Over the Bed Swing in the Gap 40 1/2", Width of Gap 15", Range of Speeds 4.2 - 290 RPM, 10" Hollow Spindle, Bed Length 142" w/Anilam Digital Readout, 3 & 4' Jaw Chucks, Face Plates, Cutters

Clausing-Colchester 17" Engine Lathe, 17" Swing Over The Bed, 16 Spindle Speeds 20-1600 RPM, 86" Length of the Bed, Taper Attachment w/ XY Readout, 3" Hollow Spindle, w/ Steady Rests & Various Plates

(2ea) LeBlond Regal 19" Lathe, 19" Swing Center Distance 54", 12 Spindle Speeds 25-1500 RPM, 8'3" Length of the Bed, Quick Change Chuck, 2 7/8 Hollow Spindle w/ Accurite Digital XY Readout

Clausing-Colchester 15" Engine Lathe, 15" Swing, Bed Length 71", 25-2000 RPM Spindle Speed, 2" Hollow Spindle

(2ea) LeBlond Regal Mdl 19-E7 Lathe, Swing Over the Bed 19 3/4", Distance Between Center 54", 12 Spindle Speeds, Range 25 & 1500 RPM, Bed Length 8'3", w/ Accurite XY Digital Readout, 3 & 4 Jaw Chucks, Face Plates, 1 3/4" Hollow Spindle

(2ea) Turrit Mdl T-300 SB Sliding GAP Bed Lathe, Swing over the Bed 24", Swing over the Gap 34", Length of Gap 0-28", Distance Between Center 69", 18 Spindle Speeds, 16-1250 RPM, 2 1/4 Hollow Spindle w/Accurite III Digital Readouts

Monarch Mdl 12CK Lathe, 14.5" Swing, Center Distance 54", Bed Length 80", w/ Accurite XY Digital Readout

Clausing/Colchester 13" Variable Speed Engine Lathe S/N LVM50511JV02197, 13.7 Swing, 50" Between Centers, Spindle Speed 0-3250 Rev/Min w/ Accu-Rite Digital Readout

Jet GHB-1340 Geared Head Lathe, 12" Swing Over the Bed, 18" Gap 40" Between Center

Harding Mdl HC-CF Chucking Lathe Spindle Nose Diameter 2.2", Max Fixture Diameter 9", Threading Diameter 6", Max Distance from Face to Spindle 13", Spindle Speed 125-3000 RPM w/ Accurite XY Digital Readout

LeBlond 15" Regal Lathe, 15" Swing, 48" Bed

Clausing MDL 5938 Metal Lathe 4' Bed 12" Swing

Southbend Mdl CLK-145 Lathe, 12" Swing, 6' Bed

Warner Swasey No 3 Turret Lathe

LeBlond 19"x39" Gap Bed Engine Lathe, Swing over the Ways 20 1/2", Swing over Gap 40 1/2", Distance Between Centers Closed 6', Extended 10'

## VERTICAL TURRET LATHES

Giddings & Lewis 60" CNC Vertical Turret Lathe, S/N513-121-86 w/12 Station Tool Changer, Diameter of Table 60", Facing Capacity 72", Max Swing 74", Height Under Rail 60", Rail Travel 48", Ram Head Vertical Travel 62", Travel Below Rail 54", Travel Right of Center 44", Travel Left of Center 42" w/G&L 8000 CNC Control head. Set up for Digitizing Cap.

Scheiss Mdl KE-125 Single Column Vertical Turret Lathe, S/N 37659, 48" Diameter Table, Max. Turning Diameter, 49", Max Turning Height above Top of Table 40", 18 Table Speeds, Table RPM 5-250 RPM w/Accurite XYZ Digital Readout

G&L Hypro Type 64 Vertical Turret Lathe, S/N 7546; 62" Table, Dbl Column, right Hand Turret, 38" Horizontal Travel, 36" Vertical Travel, L/H Turret 38", Horizontal Travel 40", Vertical Travel 50 Hp Motor w/2ea Sony XY Digital Readouts

Bethiez Mdl BM-160 Vertical Turret Lathe Single Upright S/N141033, Table Diameter 63", Max Diameter To Be Turned 12", Height Admitted Under the Arm Max 63", Min 17 3/4", Table Speeds 1.25-160 RPM, Vertical Travel of RAM 39 1/4", Horizontal Travel 70", Below the Arm 27 1/2" w/ Sony Digital XY Digital Readout

## WELDING & PLASMA SPRAY EQUIPMENT

Sciaky Robotic Fusion Weld System w/AcuWeld Machine # 11601 Robotic Unit: X Axis Stroke 44", Y Axis Stroke 18", Z Axis Stroke 36", ALL have the Same Speed: 100 IPM'S, 42" Table Tilt Angle 0-90 Degree, Rotation Speed 5 RPM w/XYCOM Computer Control Panel

Miller Syncrowave 350 Constant Current AC/DC Arc Welding Power Source w/Foot Control, 230/460 V Single Phase

Miller Mdl PSW-1020MT Resistance Spot Welder Power Supply & Spot Welder w/22" Throat

Sulzer Metco Mdl LCA Plasma Spray Gun Control Unit w/LCARE Electric Arc Power Supply, Mfg "00"

Tafa Mdl 30-8B25 Arc Spray Power Unit w/Mdl 8830 Spray Gun

Unitec Mdl 875 Dual Pulse Stored Energy Power Supply Mdl HFP Hand Piece

Diamond Ground Products Mdl 2V2 Tungsten Grinder

## PNEUMATIC TEST CELLS

Pneumatic Test Cell #4 Engine Air Starter Test Cell: Includes Complete Control Panel and Pneumatic Starter Test Bench For All Pneumatic Starters Will Include All Piping, Cold and Hot Air Control Valves, Mixing Valves and Misc Tooling.

Pneumatic Test Cell # 5 Air Flow Valve Test Bench: For Testing Flow Valves, Regulators Valves and Temp Valves has High Pressure Capability Up To 2500 PSI, Max Air Flow Rate 280LBS Per Min, Bench Also has Vacuum Capabilities Will Include All Piping, Cold and Hot Air Control Valves and Various Valve Adapter Fixtures

Pneumatic Test Cell # 3 Complete Control Panel, Set Up With Air Bus A320 and 747-400 Air Cycle Machine Test Fixtures Will Include All Piping, Cold and Hot Air Control Valves, Mixing Valves and Misc Tooling

Pneumatic Test Cell #2 With Complete Control Panel. Set Up With Test Fixtures For DC-9 and 727 Air Cycle Machine and 727 Flow Multiplier Bench, P+W Engine Tobi Duet Test Fixtures Will Include All Piping, Cold and Hot Air Control Valves, Air Mixing Valves and Masc. Tooling.

Pneumatic Test Cell # 7 w/ Complete Control Panel Set Up With Test Fixtures For 747 Air Driven Pumps, DC-10 and 747 Air Cycle Machines and 747 Leading Edge Flap Drive and Thrust Reverser Actuators Will Include all Piping, Cold and Hot Air Control Valves, Air Mixing Valve and Misc. Tooling

747-400 ACM Tension Gauge Preload Fixture

## SHEET METAL EQUIPMENT

Eckold Mdl KF-460 Sheet Metal Kraft-former Shrinker Stretcher, Electric, Mfg "90"

Chicago Mdl SB-612 6' Sheet Metal Brake

Pexto Mdl 152K Sheet Metal Shear, 52" 16 Gauge Soft Steel

Whitney Jensen Mdl 612 Sheet Metal Break 6'

Chicago Pneumatic Mdl 625 Compression Riveter, 36" Throat

US Tool Mdl 150 Compression Riveter, 12" Throat

Chicago Pneumatic Mdl T-8132 Compression Riveter

## MILLING MACHINES

(2ea) CompuMill 4000 CNC Vertical Milling Machines, 3 Axis, 5 Hp Head, 15" x 51" Table Has Autocon Dynapath, Delta CNC Controllers

Bridgeport Series II Special Vertical Milling Machine, 2HP Head, Power Knee & Table, w/Sokking XY Digital Readout, 58" x 11" 3 Slot Table, Spindle Speed 60-4000 RPM

Bridgeport Series II Special, Vertical Milling Machine, S/N J28101822, 2HP Motor, 11" x 58" 3 Slot Table, w/ Power Table, Rapid Traverse, 4 Power Knee, w/ Sokki Mdl # DU-202 Digital XY Programmer & Readout, 60-4200 RPM

(4ea) Bridgeport Series I Vertical Milling Machines, 2HP, 48" x 9" 3 Slot Table, w/ Bridgeport Mdl 8F Table Drive w/ Rapid Traverse w/ Sokking XY Digital Readout, Spindle Speed 60-4200 RPM, 4" Riser Blocks

Bridgeport Series I Vertical Milling Machine 2HP Head, 9" x 48" 3 Slotted Table, Power Knee & Table w/ Accurite III Digital XY Readout

Bridgeport Series II Vertical Milling Machine S/N J267742-2, 2 HP Motor 11" x 58", 3 Slot Table, Spindle Speed 70-4200RPM

Bridgeport Series I Vertical Milling Machine, S/N J279480, 2hp Motor, 9" x 48" 3 Slot Power Feed Table, w/ Rapid Traverse, Spindle Speed 70- 4200RPM

Bridgeport Series II Special Vertical Milling Machine, 2HP Head, 11" x 58" 3 Slotted Table, 60-4200 RPM Spindle Speed, 6" Riser Block

Bridgeport Series I Vertical Milling Machine, 2HP Head, 42" x 9" 3 Slotted Table, 60-4200 RPM Spindle Speed,

Bridgeport Series I, Vertical Milling Machine, S/N J242118, 2HP Motor, 9" x 42" 3 Slot Table, Spindle Speed 60-4200RPM

Enco Vertical Milling Machine, 2 Hp Motor, 9" x 42" Power Table, Digital XY Readout



Scheiss Mdl. KE-125 Vert. Turret Lathe



Lucas 441B-48 4" Horz. Boring Mill



Ex-Cell-O 508 CNC Work Center



G&L Mdl. 25VS CNC Vert. Machining Center



Woton B-1055 4" Horiz. Boring Machine



1 of 2 CompuMill 4000 CNC Milling Machines



Lucas 542B-120 CNC 5" Boring Mill



Lucas Mdl. 30 CNC 5" Horiz. Boring Machine



Kerns-Richards KH-130L CNC 5" Boring Mill

# Selling Wednesday, August 30 - Starting at 9:00 A.M.



Wasino LJ-103M CNC Turning Center



Elox HRP-164 EDM Machines



LeBlond Regal 19" Lathe



(3 Ea.) Lathes, Jet, LeBlond & Clausing



Overhead Cranes



Zygro Line

## DEGREASER LINE & CLEANING EQUIPMENT

Finishing Equipment Degreaser Cleaning Line w/Mdl 2AE-VS-SP Degreaser S/N 6261, Mdl AS-240 Still, S/N 6262 & ACC-25 Chiller System S/N 6263, 7'W x 35'D x 20' H, Steam Heat  
 8 Tank Cleaning Line 3'x3'x3' Stainless Steel Tanks.  
 Decarbonizes Stand  
 6' W X 6' D Stainless Steel Wash Rack W/ Jenny E-350-C Steam Pressure Washer  
 Solvent Spray Booth Various Sizes  
 Air Flow Systems Solvent Spray Stand  
 (20 ea) Stainless Steel & Poly Cleaning Degreasing & Alkaline Tanks; Various Sizes & Depths; Some Heated & Some w/Agitation & Air Lift Systems  
 Large Selection of Aluminum Cleaning & Dipping Baskets

## EDM MACHINES

Xermac Mdl X-40 Electrical Discharge Machine, Work Tank 56" W x 32"D x 18" H, Table Size 21" x 41", Ram Travel 12", Platen up 10" x 16", Open Height 30" w/ HP120 Power Supplies & PulseScale Mdl CA, XYZ Digital Readout Controller  
 (2ea) Elox Mdl HRP-104 Electrical Discharge Machines, S/N 1456 & 1457 w/ Dual Control Panel Capable of Running 1, 2 or Both, Ram Travel 12", Open Height to Table Platen Up 22" Down 10"

## GRINDERS

Overbeck Mdl 6001 CNC Grinder S/N 66245-Mfg "88", 3 Axis, 4 Spindle, Z Axis: Grinding Table, Speed 400" per Minute, Grinding Stroke 23.62", Max Distance from Work Piece to Grinding Spindle 48.82", Grinding Slide X Axis: 400" per minute, Max Rapid Traverse Rate, 24.4", Rough Setting (Manual) Grinding Table, U Axis: Speed 393.70 per minute, Max Traverse Rate 5.91", w/ ANC CNC-M270 Control Head, Deep Bed Independent Filter System  
 Studer Mdl S30-1 Universal Cylindrical Grinding Machine, Mfg "98", Straight Plunge Grinder, Auto, Grinding Cycle w/ 2 In feeds, Hyd Controlled XY Axis, Swivel Range 0-90 Degree Work head, Speeds 60-600 RPM, Morse 5 Taper, Grinding Wheel Diameters 16" x 3 3/4" W x 5" Bore Wheel Slide Max 10.2" & Cytotron Filter Bed  
 Studer Mdl S20-2 Universal Cylindrical Grinding Machines, Auto Grinding Cycles, XZ Axis Electrical Controlled, Swiveling Wheel head Table Swivels to 30 Degrees, Center Height 3.94" Center Distance 15.75"-25.6"  
 Studer Mdl RHU-1000 Cylindrical Grinding Machine, Center Heights 4.92"- 6.89" Center Distance 40.35", Max Table Swivel 8 Degree, Work head Swivel 90 Degree, Work head Spindle Speed 30-675 RPM  
 Blohm Mdl Simplex 5 Surface Grinder, Max Grinding Length 20", Width 14" Travers Cross Table 12", Diameter Standard Grinding Wheel 12" Magnetic Chuck 12" x 18"  
 Harig Mdl 618 Hand Feed Surface Grinder S/N 6772-W w/ 6' x 18" Magnetic Chuck  
 Taisei Mdl GR1-2000 Internal Grinder S/N 475 Swing Over Table 39.4", Travel of Table 78.7", Diameter of Hole to Be Ground 1.97" to 27.6" Max Length of Hole To Be Ground 78.7", Swing Inside Chuck Guard 33.5" w/ 3ea Extra Grinding Heads  
 Brown & Sharpe No. 13 Universal & Tool Grinders Capacity: Center Swing 8" Diameter, 24" Length  
 Churchill Mdl 2A Internal Grinder, 14" x 30", Stroke Diameter 3", Max Center Height Over Table 18", Grinding Wheel Head Traverse, 24", 38" x 30" Table  
 Landis Type CH Universal Hydraulic Grinder S/N 699-6, 25" x 92"  
 Heald No. 74 Internal Grinder, S/N 28382, 30" Swing, w/ Heald Redhead Type 149 G-4 Grinding Head  
 Norton 10" x 24" Universal Grinding Machine, w/ Various Fixtures  
 Norton 72" Universal Grinder

## WHEEL & BRAKE SHOP

(2ea) BalTec Radial Riveting Machines, Mdl RNE-331 & 330 Riveting Press, 7260lbs, Riveting Time - .2 - 5.9 Seconds w/BalTec RC-20 Controller  
 (3ea) Baur Airmotive Universal Wheel Build Up Stands w/Cooper Mdl 670005-F-S Automatic Torque Controllers & Control Panels  
 Sancor Mdl 138-2000 Tire Bead Breaker w/Various Fixtures  
 (3ea) Automatic Tire Inflation Cages  
 Shop Built Aircraft Brake Pressure Test Stand  
 Chicago Pneumatic Compressor Riveter w/ 24" Throat  
 Lemco Mdl 75-E2, 75 Ton Hydraulic H Frame Press  
 Lincoln Pneumatic Bumper Jack  
 Greenerd No5 S Arbor Press  
 Clausing Mdl 2286 Variable Speed Drill Press, 150- 2000 RPM  
 Blanchard Mdl NOS20D-36 Surface Grinding Machine, 38" Swing inside Water Guard, Vertical Height Range 12", Wheel Speed 750 RPM

## ENGINE ARMS WATERJET SYSTEM

United Technologies Pratt & Whitney Engine ARMS Waterjet System, CNC Computer Controlled has FANUC S-420 Robot, Kavel Robot Controller, 60" Diameter Rotary Table w/120 Part Capability, 55-150 Jet Edge Ultra High Pressure Pump, Quick Change Tooling Fixture Stand, Water Maze Water Cleaning System w/Accuchiller  
 (2ea) Aerology Media Filter Modules Enclosure is 12' W x 18" D

## OVERHEAD & JIB CRANES

Spanmaster 5 Ton Under Slung Overhead Crane, 36' Span w/2 Acco 2 Ton Electric Hoists  
 Acco 5 Ton Under Slung Overhead Crane, 33' Span w/2 Acco 2 Ton Electric Hoists  
 Spanmaster 5 Ton Under Slung Overhead Crane w/P&H 5 Ton & Yale 2 Ton Electric Hoists 36'  
 (2ea) Spanmaster 3 Ton Under Slung Overhead Cranes, 21' & 35' Spans w/P&H Hoists  
 (3ea) Spanmaster 2 Ton Under Slung Overhead Crane, Span 36' w/Acco & Electric Hoists  
 (2ea) Spanmaster 5 Ton Under Slung Overhead Crane, 36' Span w/2 P&H 2 Ton Electric Hoists  
 Acco 3 Ton Under Slung Overhead Crane, Span 36'  
 Spanmaster 2 Ton Under Slung Overhead Crane, 36' Span w/2ea Acco 1 Ton Electric Hoists  
 Spanmaster 2 Ton Under Slung Overhead Crane, 36' Span w/ Speedway Electric Hoists  
 (5ea) Spanmaster 2 Ton Under Slung Overhead Crane, 34' Spans w/Yale & Acco Electric Hoists  
 (2ea) Acco 2 Ton Under Slung Overhead Crane, 30' Span  
 Spanmaster 1 Ton Under Slung Overhead Crane, 36' Span w/Speedway Electric Hoists  
 Acco 1 Ton Under Slung Overhead Crane, 27' Span  
 (18ea) 1/2 Ton Free Standing Jib Cranes w/Budget & P&H Electric Hoists  
 (1ea) 1 Ton Free Standing Jib Crane w/Coffing Electric Hoists  
 Approx. 8 Acco & P&H 1/2 Ton Electric Chain Hoists on Single Rail System over Cleaning Tanks  
 Approx. 20 Overhead Electric Hoists Includes: Yale, P&H, Wright etc. 1/2 Ton - 5 Ton  
 Several New Overhead Crane & Hoists Trolley, Rails, control Boxes & Misc. Parts

**NOTE: A 5% BUYERS PREMIUM WILL APPLY TO ALL PURCHASES AT THIS AUCTION.**



Xermac X-40 EDM Machine



Norton 10" x 24" Universal Grinder



Studer S30-1 Cylindrical Grinder



DoAll Hyd. Horizontal Saw



Studer S-20 Cylindrical Grinder



Brown & Sharp #13 Universal Grinder



Heald No. 74 Grinder



DEA Iota 1203 CMM



Jib Cranes



# Selling Wednesday, August 30 - Starting at 9:00 A.M.



(2) Zyglo Lines



Magnaflex AD-945L Inspection Bench



Raemelin 10 x 10 x 14 Blasting Booth



Torit Back Draft Booth



Lappmaster 36 Lapping Machine (Bearing Room)



Lucas 42B-60 4" Boring Mill

## BLASTING BOOTHS & EQUIPMENT

(Will Be Sold Thru-Out Both Days 1 & 2)

- Progressive Technologies CNC Robot Shot Peening Machine S/N 8316, Mfg "99", Consisting of 4 Axis Gantry Style Robot & Indexing/Continuous Rotating Spindle Mounted on a Pneumatic Linear Axis for Loading & Unloading of Parts, 2 Stage Pressure Pot & Reclaimer. 40" Table w/Allen Bradley 9 Series CNC Control Panel
- (2ea) Empire Mdl PF-2636 Blasting Cabinet w/ Reclaimer & Empire Mdl DCM-80A Dust Collector, Cabinet 36" W x 36" Deep x 30" Tall
- Empire Mdl 2636 PR-4 Blasting Cabinet w/ Reclaimer S/N 8185, Cabinet Size 36" W x 26" Deep x 32" Tall, w/ Empire Mdl # DCM 80A Dust Collector
- Hoffman Rail Car Type Blasting Booth, 10 1/2' W x 11' H x 21' D w/ 4 each Outside Blasting Cabinets on Each Side, w/A-BEC Industries Media Pot & Hoffman Mdl DFT2-12 Filter System
- Empire MDL EB-4848 Blasting Cabinet w/ Reclaimer 4' X 4' X 36' Cabinet S/N M-97558 and Empire MDL DCM-200 Filter System
- (2ea) Empire Mdl PF-6060 Blasting Cabinet & Reclaimed, Cabinet Size: 60"W x 60" D x 55" H w/Rollout Rotating Table & Mdl DCM-200 A Filter System
- Empire Mdl EB-3648 Blast Cabinet w/Reclaimer & Empire Mdl DCM-200 Filter System
- Empire Mdl PF-4848 Bead Blast Cabinet, 48" W x 47" D x 36" H w/Rotating Table, Empire Reclaimer System & Mdl DCM Filter System
- (2ea) Ruemlein No 41308 Blasting Booths, 10 x 10 x 14 w/2 each PMB Schmidt Media Pots & Hoffman Reclaimer System & Hoffman MDL HDFT2-12 Filter Systems
- (2ea) Ruemlein Type D-6477 Blasting Cabinets, 60" x 60" w/Ruemlein Size 750 Reclaimer Pot & Filter System w/Rotating Tables
- Ruemlein Blasting Booth Type D-6383-4, Size 6'x14'x8' w/Ruemlein Pot, Reclaimer & Filter
- Zero Mdl Pulsar VI Bead Blast Cabinet, Mfg "01" Cabinet Size: 48" W x 38" D x 38" H w/Reclaimer
- Zero Mdl Pulsar VI Abrasive Blast Cabinet w/ Dust Collector & Filter Mfg Afs 01, 50"W x 40" D x 43" T
- Zero Mdl BNP65-600 Bead Blast Cabinet w/Filter System
- MFI Mdl PSA-HZ Vibratory Cleaner, S/N 25142V, Mfg "98"
- (3ea) Vapor Blast Mdl 3030 & Mdl 4836 Liquid Honing Blast Cabinets

## MISC. SHOP EQUIPMENT

(Will Be Sold Thru-Out Both Days 1 & 2)

- |   |  |
|---|--|
| Superior Mdl HM Horizontal Hone S/N 2200-B-174                            | Leonard Grind-R-Lap 5" Tool Grinder (2ea) Cincinnati 1HP Pedestal Deburring Grinders |
| Superior Mdl AM Horizontal Hone S/N 7002-1                                | Black & Decker 8" Pedestal Grinder   |
| Sunnen Mdl MBB-1290D Horizontal Hone S/N 15549                            | Several Small Surface Plates and Lapping Stones.                                     |
| Superior Mdl VA Vertical Hone 6"2" Travel S/N 2800-A-105                  | Amerivacs 25" Vacuum Bag Sealer  |
| Lempco Series 50E7, 50 Ton H Frame Press                                  | 8" Electric Cut-Off Saw  |
| Enerpac 25Ton Pedestal Hydraulic Press                                    | Walker-Turner Mdl 80A3 Electric Cut-Off Saw  |
| Shop Built H Frame Press w/ Enerpac Hyd Pump                              | Makita 14" Chop Saw  |
| Branson Mdl DHA1000-6R Heated Ultrasonic Cleaner                          | Safco Mdl SPL30 & SPD30 Etching System   |
| Branson Mdl 85/OR-DTH Heated Ultrasonic Cleaner                           | Porter Cable Type G8 8" Wet-Dry Belt Sander  |
| Sunnen MDL LBD-1499 Horizontal Honing Machine.                            | Reco Mdl BC Bearing Heater 7" Depth  |
| (3ea) Lap Master 15 Lapping Machines w/ Lap Master Electronic Dispensers. | DeWalt Commercial Radial Arm Saw   |
| Ex-Cello 6" Tool Grinder  | Woodworking Vertical Band Saw, 30" Throat  |
| Delta Mdl MB 1/2 HP 6" Tool Grinder                                       | Schreiber Mdl 750AC Chiller Unit, S/N 4923, 7.5 Ton                                  |
| Glendo Accu-Finish Series II 6" Tool Laper                                | (2ea) Ball Screw Test Stands for testing Thompson-Saginaw Ball Screw Assy            |

## FURNACES & OVENS

(Will Be Sold Thru-Out Both Days 1 & 2)

- Abar Mdl HR-66 Vacuum Furnace S/N HR-66-609: Temp 200 Lbs @ 2400 Degree F, Hot Zone Side: 48" W x 48" H x 60" L, Heating Element Material Molybdenum, Heat Shield Material: Molybdenum, Stainless Steel, Roughing Pump: Strokes 412-11, Diffusion Pump: NRC Mdl HS-20, Holding Pump: Welch 1380M, Automatic Pump Down & Temp Cycle, Digital DCP 7700 Programmer, Automatic Partial Pressure, Argon & Hydrogen Forced Gas Cooling, EC120 Water Recirculating System
- Grieve MDL AF-650 Electric Oven Max Temp 650 Degrees f Inside Measurements 24" W X 42" D 24" T
- (2ea) Grieve Mdl AB-650 Electric Heat Treatment Oven, Max Temp 650 Degree, Inside: 42" D x 36" W x 36 H w/ Digital Readout
- Grieve Mdl BF-122412 Electric Oven, Max 2000 Degree F, Inside: 12" W x 27" D x 12" H
- Johnston Gas Fired Single Chamber Recalculating Car Type Furnace, 6' W x 5' L x 4 H, Max Temp 2000 Degree F, Gas 4000 Total C.F.H. w/ Recalculating Fan & Combustion Blower, Honeywell Digital Temp Controllers & Recorder w/Hyd. Door Lift, S/N 1691
- Johnston Electric Stationary Vertical Lift Type Furnace S/N 1692, 36" Diameter x 48" High, Max Operating Temp. 1800 Degree F w/Recalculating Fan & Honeywell Digital Temp Controllers
- Despatch Electric Car Type Heat Treat Oven, 85"W x 120" D x 81" H, 560 Degree F Max Temp w/Recalculating Fan and Temp Chart Controller, Double Swing Out Doors
- Despatch Protocol Plus Mdl LAC2-18-6 4800 Watt Electric Oven 500 Degree F, Digital Temp Control, Stainless Steel Packs 35" W x 24" D x 36" H S/N 170570
- Despatch Mdl LDR2-28 4800 Watt, 550 Degree Electric Oven 3'x 3'x 3'
- Despatch LOB Series Electric Oven, 750 Degree F Digital Temp Control, Stainless Steel Racks, 30" W x 18" D x 22" H
- Despatch Mdl SPECRS Electric Oven S/N 47848, Max 650 F, 57"W x 64" Deep x 54" Tall
- Despatch Type PRC2-96-1E Electric Oven, S/N160371-M, 500 Degree F Max Temp, Inside Measurement 4'W x 4'D x 6'H, w/Honeywell Digital Temp Controls & Chart Recorder
- Despatch Mdl V-39HD Electric Oven Car Type, 650 Degree F, Inside Measurement 4'W x 4'6"D x 5'H w/Honeywell Digital Temp Controller & Chart Recorder
- Despatch S Series Electric Batch Oven, S/N 87165 Car Type, 650 Degree Max. Temp, Inside Dimensions: 8'W x 12'D x 9'H, Double Door on each end w/Honeywell Digital Temp Control Gauge & Chart Recorder
- Despatch Mdl PWC3-10-1E Electric Car Type Oven, S/N 165639L, Max Temp 500 Degree F, w/Digital Readouts & Recirculation Fans 80" W x 62" Deep x 79" Tall
- Despatch RS-0 Electric Oven, 450 Degree F Size 2'x 2' x 3'
- Electra MDL 242436 Electric Heat Treat Oven Max Temp, 1600 Degrees f, 48" D X 36" T X 48" W Pneumatic Door, Honey Well Chart Recorder
- Johnston Gas Furnace 1200 Degrees F W/Re-circulating Fan and Digital Controllers, 24"X 24" X 24" Inside measurements.
- Hotpack Mdl 213030 280 Degree C Oven 14"W x 14"D x 11" H
- (2ea) L&L Hot Box XL Elect Heat Treat Furnaces Mdl TF3672 20" x 20" x 38" w Dual Digital Temp Control Indicators 1400 Degree F
- Temco 2000 Degree F Elect Heat Treat Oven 10" W x 7" H x 18"D
- Heat Treat Coatings Dip Tanks 22" W x 39"L x 24D
- Despatch MDL RS-0 Electric Oven 500 Degree F Inside Measurements, 24" W X 24" D X 36" T

**NOTE: A 5% BUYERS PREMIUM WILL APPLY TO ALL PURCHASES AT THIS AUCTION.**



Empire Blast Cabinet



Empire Blast Cabinet



Hoffman Blasting Booth



Cleveland 1000 Lapping Machine (Bearing Room)



P & W Bearing Testers (Bearing Room)



Pneumatic Test Cell #4



Pneumatic Test Cell #7



Ahar Vacuum Furnace



Sciaky Robotic Fusion Welder



# Selling Wednesday, August 30 - Starting at 9:00 A.M.



Taisel GRI-2000 Internal Grinder



Cincinnati Milcron Hawk 200 CNC Turning Center



Pneumatic Test Cell #4



Pneumatic Test Cell #5



Pneumatic Test Cell #7



Sheet Metal Equip.

## RACKS, SHELVING, BENCHES, CABINETS

(Will Be Sold Thru-Out Both Day 1 & 2)

(30+) 2 Door Fire Proof Cabinets  
 (800+) 2 Door Metal Cabinets  
 Very Large Selection of H.D. Pallet Racking, Several 1000 Ft.  
 (40+) Vidmar & Lista Tool & Parts Cabinets  
 Several Thousand Sections of 36" Wide Metal Shelving w/12", 18" & 24" Shelves  
 (900+) Metal Shop Benches 6', 8' & 10' w/Metal & Wood Tops

3 Tier Roll Round Parts Racks For Engine Shop  
 (75+) JT-8 & JT-9 Turbine & Compressor Wheel & Stator Parts  
 1500 Lb. Cap. H.D. Rolling Shelf Die Racks  
 Several Decks & Tables  
 (500+) 2 & 4 Drawer File Cabinets  
 (200+) Parts Carts & Parts Bins

## MISCELLANEOUS

(Will Be Sold Thru-Out Both Days 1 & 2)

(45+) Dayton 32" & 36" Pedestal Fans  
 (35+) Dayton 48" Box Fans  
 Several Squirrel Cage Fans  
 Magnifying & Fluorescent Shop Lights  
 Fire Proof Rag Containers, Waste Baskets & Brooms,  
 Spill containment Pallets, Air Hose, Extension Cords,  
 Hearing Protectors, Face Shields, Shop supplies, Microwave Ovens, Etc.

# Selling Thursday, August 31 - Starting at 9:00 A.M.



Accupress 130 Ton Press Brake



Betenbender 6' Power Shear



Accupress 100 Ton Press Brake



Premier 25 Ton Press Brake



50 Ton Enerpac Press

## PRESS BRAKES & SHEET METAL EQUIPMENT

Accupress Mdl 713010 10', 130 Ton Hydro Press Brake w/ Automec CNC 99, 1&2 Axis Programmable Controller Mdl G24 Auto Gauge Power Back Gauge, Stroke Adjusters & Safety Guard  
 Premier Mdl 425-2 Axis Press Brake, s/n 079, 48" Table, 25 Ton, Max Hyd Press 2500, w/ Hurco Autobend 7 Control Panel & LP-11 Back Gauges, Ram Stroke 4", Manual & Auto Jog  
 Accupress Mdl 7100-1C Hydro Press 100 Ton, Bed Length 10' s/n 1097 Mfg. "87" w/ Hurco Autobend 7 Controller & Power Backgauge w/ Light Curtain Presence Sensing Device  
 Accurshear Mdl 625012 Hyd Power Shear s/n 2322 Mfg. 96 12' Length, - .25 Mild Steel Cap. w/ Hyd Material Holders Has Power Back Gauge & Material Table w/ Accurshear Backgauge Controller  
 Diacro Mdl SB-3006 12' Hydrashear s/n SB300676785 Strokes Per Min 30-60, w/13 Hold Down Jacks Cap 6MM Mild Steel, Power Back Gauge  
 Pexto Mdl 25U4 Hyd Power Shear s/n 110-8-96 4', 1/4" Steel Cap. w/ Power Backgauge & Controller 4' Bed

BetenBender 6' Power Shear s/n 119595, 1/4 Capacity w/ Power Back Gauge  
 (2ea) Montgomery Mdl 7210, 6' Power Sheet Metal Roller, s/n 90006, 7 1/2 HP  
 Eckhold Mdl KF-460 Electric Sheet Metal Shrinker/ Stretcher s/n 123/5571 16" Throat  
 Wysong Mdl H-145 52" Power Shear 14 Gauge Cap, Backgauge s/n HY1-109  
 Pexto Mdl 3418H 16 Gauge 52" Power Sheet Metal Roller S/N 318-7-85  
 Enco Mdl 130-5500 48" s/n 841676, Sheet Metal Roller  
 Enco Mdl 130-4510 36" s/n 841351 Sheet Metal Roller  
 Pexto Mdl 381 Sheet Metal Roller 24 Gauge Cap  
 HP Townsend Mdl # 1447, Foot Operated Sheet Metal Shrinker, Stretcher  
 (2ea) Pexto Mdl 152K 52" Sheet Metal Shears, 16 Gauge Cap, BackGauge s/n 8677 9/96 & 9934-11-98  
 Pexto Mdl PH52A Sheet Metal Power Shear  
 Pexto Mdl 152K 52" Sheet Metal Shear  
 (4ea) Chicago Mdl SB412 48" Sheet Metal Brake

(2ea) Pexto Mdl 412, Sheet Metal Brakes, 48", 12 Gauge Cap Soft Steel  
 Whitney-Jensen 48" Sheet Metal Brake  
 Wysong Number 448, 48" Foot Operated Sheet Metal Shear  
 (3ea) Chicago Mdl BPU-412-6 48" Finger Brake s/n 327302-T, 32665T  
 Roper Whitney, Mdl MBB4181, 48" Magnabend, Sheet Metal Bender, Electric  
 Nibbler Factory Sweden p/n 55262, Electric Sheet Metal Nibbler w/ 42" Throat  
 Di-Arco Mdl HN2 Sheet Metal Notcher s/n FL-4029  
 Tennsmith Mdl SN Notcher Cap 16 Gauge Mild Steel  
 DI-Acro Sheet Metal Turret Punch  
 Pedestal Mounted Pneumatic Alligator Squeezer w/ Sheet Metal Press Jaws  
 (2ea) Heck Mdl 4 Trace-A-Punch, 15" Throat  
 PS & W Metal Working Anvil w/ Interchangeable Anvil Heads  
 Beverly Shear N B3  
 Famco Mdl R-12294, 20 Ton Punch Press w/ Dies

**NOTE: A 5% BUYERS PREMIUM WILL APPLY TO ALL PURCHASES AT THIS AUCTION.**

# Selling Thursday, August 31 - Starting at 9:00 A.M.

## VERTICAL & HORIZONTAL SAWS

Kalamazoo Mdl CS350 PV Metal Cutting Saw 1.5 HP Motor, Pneumatic Vice s/n 0996  
 Dake Mdl VH-40 Bandsaw w/ Blade Welder 40" Throat, Hydraulic Table  
 Dake Mdl VH-24 Vertical Bandsaw w/ Blade Welder, Hydraulic Table 24" Throat  
 (4ea) Do All Mdl 2013-V3 Vertical Metal Bandsaw 20" Throat w/ Tilt Table

Delta Mdl 20 Vertical Band Saw w/ Tilt-able Table  
 WF Wells 9" Horizontal Metal Cut Off Saw  
 Clausing Startrite Mdl HB330 M/VS Horizontal Band saw s/n 152082  
 Kalamazoo 12" Metal Cutoff Saw  
 Rockwell LBS 26 Bandsaw  
 (2ea) Wilton Cobra 350 Circular Metal Chop Saw w/ Power Vices  
 Rockwell 14" Band Saw



Clausing Mdl. 330 Horz Band Saw



Dake VH-40 Vert. Band Saw



Kalamazoo Model CS350PV Shop Saw

## ELECTRIC OVENS



Grieve HX-1200 Oven



Grieve AA-1000 & AA-500 Ovens

Grieve Mdl HD-153015 Elect Heat Treat Oven Max Temp 2000F 24" x 20" x 36" w/ Digital Readout & Control Panel s/n 700028  
 Grieve Mdl HX-1250 Electric Oven, 1250 Degree F Max Temp, 40" W x 26" D x 32" H Cabinet

Grieve Mdl AA-500 Electric Oven, Max Temp 500 Degree F w/ Digital Readout  
 Grieve Mdl AA-1000 Electric Oven, Max Temp 1000 Degree F w/ Digital Readout  
 Grieve Mdl BF-122412 Electric Furnace Max Temp, 2000 Degree F

## BLASTING CABINETS

Empire Mdl PF-60120 Bead Blasting Cabinet, 5' x 5' x 4' Pressure Pot Reclaimer System w/ Empire Mdl DCM-200A Filter System  
 Aqua Miser Mdl E25 Bicarbonate of Soda Stripping/Blasting Machine

Zero Mdl BNP300-4-A Spot Blasting Machine  
 Empire Mdl. FS-3648 Blasting Cabinet 48" x 36" x 36" Cabinet w/ Reclaimer & Empire Mdl DCM-200A Filter System

## DRILL PRESSES

(3ea) Clausing Mdl 1765, Variable Speed Drill Presses, Floor Model, 500-4000 RPM  
 (4ea) Clausing 15, Mdl #1689 Variable Speed Drill Press, 300-4000 RPM Spindle Speed  
 Clausing Mdl 2225 Variable Speed Reversible Drill Press

Wilton Strand Mdl 20720 Milling Drilling Machine, Floor Model Spindle Speed 120-3480 RPM  
 Clausing Mdl 2277 Floor Mdl Variable Speed Drill Press 150-2000 Rpm Spindle Speed  
 Wilton 20" Variable Drill Press  
 Dayton Mdl 6W282, 20" Variable Speed Floor, Model Drill Press  
 (2ea) Rockwell Mdl 15 Variable Speed Drill Press  
 Walker Turner Mdl 1142-43, Variable Speed, Floor Model Drill Press  
 Dayton Variable Speed Drill Press Mdl 3257  
 (3ea) Clausing Mdl 1771 Drill Presses, 330-4000 Spindle Speed  
 Clausing 20" Mdl 2776 Drill Press 300-2000 RPM  
 Dayton MDL 32917 5 Speed Drill Press  
 Delta Mdl 17900 Variable Speed Drill Press



Drill Press

## WELDERS



Miller Syncrowave 300 Welder



Miller 330 Aircrafter Welder

(2ea) Miller Syncro Wave 300, AC/DC Gas Tungsten/Arc Shielded Metal Arc Welding Power Source, 23/460 V Single Phase  
 Miller Mdl 330ST Air Crafter Constant Current AC/DC Arc Welding Power Source w/Tig Welding Attachment 230/460 V Single Phase

Miller Dial Arc 250 AC/DC Constant Current AC/DC Arc Welding Power Miller MDL #330A/BP AC/DC Inert Gas Welder, 460V, 115 Amp, 60 Cyl Freq. w/ Cooling Tank

## AIRCRAFT JACKS

(3ea) Regent Mdl 8356R, 100 Ton Jacks Elect-Hyd  
 Regent Mdl 3356R100, 100 Ton Tripod Jack Air Over Hyd  
 (6ea) Regent Mdl 2955-010, 50 Ton Tripod Jacks, Air Over Hyd  
 (2ea) Malabar Mdl 767A 60, Ton Tripod Jack Air Over Hyd  
 (2ea) Regent Mdl 2955-014, 50 Ton Tripod Jacks Air Over Hyd  
 (2ea) Malabar Mdl 7235, 35 Ton Tripod Jacks Air Over Hyd  
 (2ea) Regent Mdl 3936, 25 Ton Tripod Jack Air Over Hyd  
 (4ea) Malabar Mdl 516, 25 Ton Tripod Jacks Air Over Hyd  
 (3ea) Malabar Mdl 724, 25 Ton Tripod Jacks Air Over Hyd  
 (2ea) Malabar Mdl 703, 25 Ton Tripod Jacks Air Over Hyd  
 (3ea) Malabar Mdl 718A, 20 Ton Tripod Jacks Air Over Hyd  
 Regent Mdl 986-014, 25 Ton Tripod Jack Air Over Hyd  
 Malabar Mdl 7120A, 25 Ton Tripod Jack Air Over Hyd  
 (2ea) Malabar Mdl 524, 17 Ton Tripod Jacks Air Over Hyd  
 (2ea) Malabar Mdl 511, 17 Ton Tripod Jacks Air Over Hyd  
 Malabar Mdl 17-60, 17 Ton Tripod Jack Air Over Hyd  
 Sancor Mdl 2542, 17 Ton Tripod Jack Air Over Hyd  
 (2ea) Malabar Mdl 512, 12 Ton Tripod Jacks Air Over Hyd



Aircraft Jacks

(2ea) Malabar Mdl 706, 15 Ton Tripod Jacks Air Over Hyd  
 Malabar 749A 20, Ton Tripod Jack Air Over Hyd  
 Regent Mdl 8359-011, 15 Ton Tripod Jacks Air Over Hyd  
 Regent Mdl 8359S, 15 Ton Tripod Jacks Electric Hyd  
 Regent Mdl 2958, 15 Ton Tripod Jack Air Over Hyd  
 (2ea) Malabar Mdl 7215, 15 Ton Tripod Jacks Air Over Hyd  
 Sancor Mdl 1228-31, 12 Ton, 45 Inch Jack Air Over Hyd  
 Malabar Mdl 714A, 12 Ton Hyd Tripod Jack  
 Regent Mdl 2943-010, 10 Ton Tripod Jack Air Over Hyd  
 Regent 2000 lb MLG Axle Jack Mdl 9366-010  
 60 Ton Axle Jack p/n 6008-50  
 Malabar Mdl 8085, 35 Ton Axle Jack  
 Malabar Mdl #60L4.5, 60 Ton Floating Beam Jack  
 (1ea) Malabar Wheel & Brake Dolly



# Selling Thursday, August 31 - Starting at 9:00 A.M.



Strasbaugh 6CZ Window Polisher



Sunnen Hone



Graco ProBatch Paint System



Aircraft Tooling



DoAll Band Saw

## LIFT TABLES & STANDS

- (2ea) Cotterman Maxi-Lift Telescoping Maintenance Stand (300lb)
- Genie Electric Dual Personnel Lift, Mdl DPL-30, 30' Height, 750 Lbs Cap
- Wesco Mdl Lt-60, 6000Lb Lifting Table 2' x 3' Table
- (3ea) Western Mdl 2131, Electric Lift Table
- Presto Mdl # PSTA-2127, 2000lb Electric Hyd Pallet Lift
- Barrett 500lb Portable Elevator
- Genie Lift Mdl GL-8 Tool Lift
- 4' Maintenance Stands Several
- (2ea) 4' Maintenance Ladders
- (75ea) Fiberglass Step Ladders Bauer & Werner 2', 4, 6, 8, 12 Single & Double Sided
- (9ea) Aluminum Single & Double Sided Step Ladders 6' & 8'
- Very Large Selection of Engine & Misc Shoring Stands Scaffolding Panels

## SLIDE RAFT PACKING FIXTURES

- (16ea) 757 Door Slide Raft Packing Fixtures Includes Door 1, 2, 3, & 4 Mfg Include Air Cruisers, Boeing
- (11ea) A-320 Fwd & Aft Door Slide Raft Packing Fixtures Mfg: Air Cruisers & Airbus
- 747 Slide Raft Packing Fixture
- Good Selection of Slide Shop Tools including Packing Aids, Clamps, Vacuum Caps & Hoses, Vacuums, 747 Slide Pivot Bracket Drill Jigs

## AIR CONDITIONING CARTS

- Spot Cool Mdl 50 HLL, 60,000 BTM Portable A/C Cart
- Rupp Mdl THPAC-50, 50,000 BTU Portable A/C Cart
- (2ea) Rupp ENV-12 Portable Air Conditioners 480V/3PH

## DUST & SMOKE COLLECTORS

- (4ea) Air Quality Engineering Mdl M66V Media Air Cleaner
- (2ea) Torit Mdl VS-1200 Dust Collector
- (2ea) Torit Mdl 60 Cab Dust Collector
- Donaldson Torit Porta-Truck Smoke Collectors
- (4ea) Torit Cabinet Dust Collectors
- Airflow Systems Cartridge Dust Collector
- Smoke Master Collector
- Nederman Media Air Cleaner
- Delta 55 Gal. Drum Dust Collector
- Air Quality Smoke Master Air Cleaner

## MISCELLANEOUS SHOP EQUIPMENT

- (2ea) Graco Probatch Paint Dispensing System Mdl 244441, w/ Programmable Dispensing Controller w/ up to 6 Fluids in a Batch, 125 PSI Max Incoming Air Pressure, 250 PSI Max Working Fluid Pressure
- Ingersoll Rand Mdl 2537E Horizontal Air Compressor, Dual Stage, 7 1/2 HP Motor & 200 Gal Tank
- K.O. Lee Mdl B6062B Tool Grinder, 2HP Motor, 36" x 5 1/2" Table, Minarik Moto-Master 2000 Motor Controller s/n 28299
- Sunnen Mdl MBB-1660-E Industrial Honing Machine s/n 401-99903 w/ PF-150 Filter System s/n 10231
- Selco Mdl 82E8 Commercial Waste Bailer, Hyd
- (8ea) Snap On Roll-A-Round Bottom Tool Boxes Mdl KRL-1023, 6' Long, w/ 20 Drawers Some w/Side Boxes
- Enerpac 50 Ton Electric Over Hydraulic "H" Frame Press
- SPX 55 Ton Hyd Press Frame
- Enerpac SP-50100 Press w/ Elect Pump
- (4ea) Kalamazoo 6" Belt & 12" Disc Sander
- Wilton Mdl 4002 1" Belt 8" Disc Sander
- Delta B.O.S.S. 3" Oscillating Spindle Sander
- (2ea) Jet 10" Disc & 6" Belt Sander
- 12" Disc Grinder
- White Sand 6" Commercial Belt Sander
- Burr King 1 1/2" Belt Sanders
- (2ea) Burr King 4' Belt Sander
- Wilton MDL 4300 6" Belt Sander
- Kalamazoo 8" Belt Sander
- Stratoflex Mdl T08-103 Hose Crimping Machine w/ Dies
- Pyrometric Mdl P202-121-120-0, Polybond/Fiberglass (Composite) Repair & Test Stand
- Pyro Bond, Fiberglass Tester
- Torit Mdl DB3000 Downdraft Table, w 4' x 6' Table
- Milwaukee 14' Cutoff Saw
- Hitachi 10" Meter Saw
- Dewalt 14" Benchtop Cutoff Saw
- (2ea) Baldor 1 1/2 HP Pedestal Grinder
- (3ea) Baldor 1.5 Hp Pedestal Grinder/Polishers
- Ryman 3" Beltsand & Wire Wheel Machine
- (3ea) Baldor 1 1/2 Horse Pedestal Grinder-Buffers
- Atlas 10" Bench Top Lathe, 36" Bed
- (2ea) Columbia Mdl. 650-1 Surging Machine
- (5ea) Eastman & Wolf Carpet Cutters
- Dake #2 Arbor Press
- Famco Mdl 3 1/2 C Arbor Press
- (4ea) Dake Mdl 1 Arbor Press
- (1ea) Lapping Plate
- Packmaster Pneumatic Drumpacker
- Pneumatic Can Crusher
- Croix CX-7 Turbine Paint System
- Red Devil Mdl 3400 1 Gallon Paint Shaker
- Shop Built Paint Curing Oven 8' W x 32" Deep 36" Tall
- Large Binks Type D-5101 Paint Pot
- Branson 2200 Ultrasonic Cleaner
- Rhino High Pressure Steam Cleaner
- Airfone System Ramp Tester, Several Graco Pneumatic Grease Pumps
- Blackhawk 1000lb Transmission Jack
- (2ea) Coffing 1/4 Ton Overhead Electric Chain Hoists
- 8 Ton Hyd Hoist
- Electric Parts Washer
- Several Bench Vices
- Large Selection of Shop Vacs Large & Small
- Large Selection of House Jacks "Shoring Stands"
- (4ea) Aldoine & Water Rinse Tanks
- (3ea) Scon Mdl SLX4000 Hazardous Lighting System
- Hinge Pin Cutting Table
- Several Ingersoll Rand Pneumatic Barrel Pumps
- (4ea) Liquid Nitrogen Containers
- Barber Coleman Mdl GYZJ934 Portable Hardness Tester
- 2 Ton Engine Hoists
- Several 55 Gal Drum Wet/Dry Vacs
- Small Safety Kleen Parts Washer
- Several Bench Vices
- Karpet King Surger
- (3ea) Eastman Carpet Cutter

**NOTE: A 5% BUYERS PREMIUM WILL APPLY TO ALL PURCHASES AT THIS AUCTION.**

# Selling Thursday, August 31 - Starting at 9:00 A.M.



Chicago 48" Brake & Shear



Pexto 48" Shear



Torit Down Draft Table



Accushear 12' Power Shear

## AIRCRAFT DOCKS & MAINTENANCE STANDS

(2ea) A-320/757 Wing Docks  
 (2ea) A-320/DC10 Wing Docks  
 DC-9 Tail Dock  
 (2ea) DC-9/727 Rear Fuselage Stands  
 (2ea) DC-9 Wing Access Stands  
 757 Tail Dock  
 757 Fwd Entry Door & Nose Stands  
 (3ea) 757 Fwd Entry Door Work Stand  
 757 No 1 & 2 Engine Stands  
 757 Outboard Pylon Stand  
 (3ea) 747 Pneumatic Engine Work Stands

(2ea) DC-10 AFT Maintenance Stands Hyd Scissor Lift, Type Can Be Used On Several Aircraft  
 A-320 Fwd Cargo Stair  
 (2ea) A-320 Adjustable Avionics Stands  
 A-320 No. 1 Door Maintenance Stand  
 DC-10/747 Cargo Door Maintenance Stand  
 Large Scaffolding Type Maintenance Stand Can Be Built for Several Applications  
 Several Tail & Nose Dock System Motors, Gear Boxes, Pumps & Several other Maintenance Stands

## AIRCRAFT SERVICE EQUIP.

ACL Boeing 747 MLG Strut Nitrogen Servicing Carts, 3000 PSI  
 747 MLG Strut Servicing Cart 5000 PSI  
 (13ea) Air Systems International Mdl L3 Fuel Tank Entry Breathing Systems W/ Masks and Regulators, Some on Carts  
 (11ea) Industrial Scientific Mdl LTX310 Gas Monitor Sets  
 Shop Built Landing Gear Servicing Cart w/ Nitrogen  
 (4ea) Fuel, Defuel Carts  
 Portable Water Servicing Cart  
 (6ea) Fuel Repair Breathing Carts  
 4 Bottle Nitrogen Cart  
 (4ea) Air Pig/Electrical Aircraft Maintenance Carts  
 Garrett Mdl CT2581 DC-10 Pneumatic System Controller Test Panel  
 Allied Signal p/n 951-6710-002 Fdams GSE Auto Test System  
 (2ea) 2 Bottle Nitrogen Carts  
 JC Air Fuel Quantity Test Cables p/n 55-0597-06E-09  
 Stahl Valve Control Test Panel  
 757 Engine Sling, Max Load 10,000Lbs  
 Large Selection of 727 Shoring Stands  
 727 Fire Extinguisher Bottle Tester Cart

## WINDOW POLISHING

Bryant Symons BS17F20AR Diamond Fly Cutting Lathe, Spindle Center Height 6.5", Main Slide Traverse 19.7", Spindle Speed 0-300 RPM w/Staubli Puma 500 Robot, 5 Axis of Revolution, Max. Reachable Height 82.7" w/Staubli Unimation Comp Control Panel  
 Strasboough Mdl 6CZ Heavy Duty Ddouble Head Window Polisher, 42" Diameter Table, Rotates 100RPM



Eckold Shrinker Stretcher

## AIRCRAFT TOOLING

There is Tooling For Boeing 727, 747 Some 757 & Douglas DC-9/MD-80, DC-10 & Misc. A-320.

To Include: Landing Gear Tools, T/R Lifting Fixtures, APU Change Kits, Control Surface Tools, Rigging Tools, Engine Change Kits, Reamer Kits, Windshield Change Kits, Axle Protectors, Locks, Trunion & Spanner Wrenches.

NOTE: For a More Complete List of This Tooling Visit Our Web Site at [www.star-manuctions.com](http://www.star-manuctions.com). Click on Upcoming Auctions. This List Will Be Approx. 75% of The Tools That Will Be Available.

# Selling Friday, September 1 - Starting at 9:00 A.M.

## AVIONICS TEST EQUIPMENT

(2ea) Collins 980L-1 Flight Instrument Test Set  
 Sperry Mdl Adt-222A Air Data Test System  
 (1ea) Fluke Mdl # 1900 A Digital Counter  
 (1ea) HP Mdl 5216A Freq Counter  
 Several Torque Watch Testers  
 (1ea) HP 6236A Triple Output Power Supply  
 (44ea) Digital Multimeters To Include Data Precision 2480 R'S, 3600'S, 3466'S, Fluke 8600 A'S, 8050 A'S  
 (1ea) Associated Research Leakage Tester  
 (1ea) HP Mdl 140A Dual Trace Oscilloscope  
 Leader Mdl LBO-516, 100 Megahurst Oscilloscope  
 HP Mdl 1725A 275, Megahertz Oscilloscope  
 (6ea) Leader Mdl LBO-525L 50 Mega Hertz Oscilloscopes  
 (4ea) Textronic Mdl 465B Oscilloscopes  
 (1ea) HP Mdl 5245L Electronic Freq Counter  
 (1ea) HP Model 5328A Universal Counter  
 (3ea) HP Mdl #200 AB Audio Oscillator  
 (4ea) HP Mdl # 427 A Volt Meter  
 Several North Atlantic Angle Position Indicators

(3ea) ARPO Force Applicator Gages  
 (1ea) Horizon/Gyro Tester  
 (1ea) Power Resistor  
 (1ea) EDL 747 Fuel Used Ind Tester, Mdl 3-503  
 (1ea) Boeing P/N F 72786-5 Stall Warning Ind Test Set  
 (1ea) Strobotac Type 1531  
 (4ea) HP 5383A Freq Counters  
 Several Decade Boxes  
 (1ea) Shop Built Stand By Horizon Ind Tester  
 (1ea) HP 5326 B Counter  
 (1ea) Safe Flight Inst Mdl 993 Lift System Analyzer- DC 9'S  
 Several HP Volt Meters  
 (2ea) Simpson Mdl 260 Multimeters  
 (2ea) Tectonic Mdl 575 Transition Curve Tracers  
 Shop Built Auto Throttle Test Panels  
 Collins Mdl 978F-1D Fit Dir Instrument Test Set  
 HP 205AG Audio Signal Gen  
 (4ea) Collins Mdl 978F-2S Synchro Simulators  
 (4ea) North Atlantic 212C Phrase Angle Volt Meters  
 Safe Flight Speed Command Computer Test Set

(2ea) Data Precision 3400 Ratiometers  
 Amp & Misc Electrical Tools  
 Several Stop Watches  
 (6ea) Shop Built Power Supplies

**NOTE: A 5% BUYERS PREMIUM WILL APPLY TO ALL PURCHASES AT THIS AUCTION.**



# Selling Friday, September 1 - Starting at 9:00 A.M.



Chicago 52" Brake



ATE Bench



36" & 48" Sheet Metal Rollers

## ATE BENCH

Honeywell Sperry STS 1000 A.T.E. Bench w/Ideal Aerosmith Mdl 223925-1, IRU Platform. Bench Consists of (3ea) CA. Instrument Mdl 971XP – Power Supplies, Valhalla Mdl 2724A Programable Resistance Standard, Tektronix RTD-710A Digitizer, Tektronix 620 Monitor, Dana 1994 Universal Counter, 53 B IAC System, Honeywell 110 Chassis Interface Panel, has several Honeywell Test Adapters & Interface Modules

## X-RAY EQUIPMENT

(2ea) Sperry Water Cooled 160 KV Industrial X-Ray Systems  
 (2ea) Stavelly Water Cooled 160 KV Industrial X-Ray Systems  
 (2ea) Lorad 160 KV Industrial X-Ray Systems (1) Water Cooled (1) Air Cooled  
 NOTE: All X-Ray Systems will have Camera, Pump, Control Box & Cables

## MISC. EQUIPMENT

ACL Boeing 747 MLG Strut Nitrogen Servicing Carts, 3000 PSI  
 (10ea) 42" Box FANs  
 (10ea) Pedestal Shop Fans 24" & 32"  
 (3ea) Ram Fan Mdl EFI 75XX Turbo Ventilator Fans  
 (5ea) Twin City Mdl FCV & 4CV Squirrel Cage Fans  
 Several Texas Pneumatic Air Pigs  
 (48) Fire Proof Rag Cans  
 (15ea) Rubbermaid 1 & 2 Cubic Yard Wheel Carts  
 Several Aluminum Dock Carts 37"W x 97"L  
 EPA Spill Containment Stands  
 (8ea) Woodhead 2000 Series Work Lights 6" Tall Fluorescent Lights  
 Several Fluorescent Work Lights w/Stand  
 Several Extension Cords & Drop Lights  
 (10ea) Nilfisk GS 80 Canister Vacuums  
 Several Extension Cord Stands  
 Several Machinist Mats  
 Single Point Refueling Hose  
 Misc Microfiche Readers/Printers, Tapes & Tape Readers

## COMMERCIAL LAWN MOWERS & TRAILERS



Hustler Commercial Mower



Ex-Mark Commercial Mower

Hustler Mdl 926311 Commercial Riding Lawn Mower Zero Turning Radius 52" Deck, Kawasaki Mdl FH680V, 23Hp Motor, Hydro Static Drive, 106 Hrs  
 Exmark Laser Z Commercial Riding Lawn Mower, Zero Turning Radius 72" Deck, w/ Kohler OHV Engine, 1178 Hrs  
 Lesco Commercial Riding Lawn Mower 52" Front Deck, Kohler OHV Engine, Hydrostatic Drive w/ 200 Hrs

Snapper Pro Express Mdl SPE1250KW Commercial Walk Behind Mower 36" Deck, Kawasaki FB 460V Motor w/ Mower Sulky  
 John Deere 22HP Tractor Gas  
 Trailer Mounted Lawn Servicing Cart  
 Pace American 8' x 24" Enclosed Aluminum Trailer, Tandem Axle, Rear & Front Drop Doors, Side Door

**NOTE: A 5% BUYERS PREMIUM WILL APPLY TO ALL PURCHASES AT THIS AUCTION.**

## CABINETS, RACKS, SHELVING & BENCHES

Approx 20ea Hangar Floor Roll Around Hardware Stocking Racks  
 (56ea) 2 Door Fire Proof Cabinets 4' & 5'  
 Various Vidmar & Lista Tool Cabinets  
 Good Selection of Lyon Hardware Cabinets  
 Good Selection of Bulk Racking  
 Large Selection of Metal Shop Benches 6' & 4'

(24ea) Grissly 6 1/2' 3 Door Metal Tool Cabinets  
 Large Selection of Metal Shelving, 3'W, has 12", 18" & 24" Shelves  
 (40ea) 4 Drawer Durham Metal Inventory Cabinets  
 Several 5' x 4' 4 Door Medart Employee Locker  
 2 Door File Cabinet

**Selling Friday, September 1 - Starting at 9:00 A.M.**

**NDT EQUIPMENT, TOOLING, HARDNESS TESTERS**

- (2ea) Hocking Wheel Scan 700 MK111, Eddy Current Wheel Inspection Machine, w/ Hocking Wheel Scan 'E' Control Head & Printer, s/n 28802-10 & s/n 32106-10, w/ Wheel Fixtures, to include 757, DC-9, 727, 747-400 & A330
- (4ea) NDT Corp Wheel Probe Kits For DC-9, DC-10, DC & A-320
- NDT Engineering Mdl WK-DC9/50N/M DC-9 Nose and Main Wheel Probe Kit
- Magnaflux Die Penetrant Insp Line w/ 3 Each Zyglo Type 2y-2436 Tanks 36w" x 24"D x 36"H & Backlight Booth
- (2ea) Inspection, Research & Technologies UPI-50 Series Ultrasonic/NDT Testing System, s/n 1-101-14/95B
- (2ea) Branson Sonoray 303 Eddy Current Flaw Detectors w/Batt Chargers
- (2ea) Krautkramer Type USK 75 Ultrascopes
- NDT Sonic 132 Ultrasonic Flaw Detector
- (7ea) Magnaflux Centurion NDT Mdl ED 520 Eddy Current Flaw Detector
- (4ea) Magnaflux Mdl ED 530 Eddy Current Flaw Detectors
- Magnaflux ED-600 Flaw Detector
- Magnaflux PS-702A Eddy Current Flaw Detector
- Elotest BI Eddy Current Flaw Detector W/ Portable Batt Supply and Charger
- (2ea) Forster Defectoscope Mdl 2.832 Eddy Current Flaw Detectors
- Zetec Mdl MIZ-20A Eddy Current Flaw Detectors & MIZ-22
- Branson USK 75 Ultrasonic Flaw Detector
- (4ea) NDT Inst Nova 800 and 810 T Digital Precision Thickness Gauges
- (2ea) NDT Inst Nova 201 Digital Precision Thickness Gauges
- Panametrics MDL 5221 Digital Ultrasonic Thickness Gauge
- Panametrics MDL 26 DL Portable Digital Ultrasonic Thickness Gauge
- Forster Defectometer H Mdl 2.835 Crack Detector
- (7ea) Nortec Mdl 19 & Mdl 24 Eddy Current Flaw Detectors
- (5ea) NDT Sonic 136 Ultrasonic Flaw Detector
- Panametrics Mdl 22 DLHR Ultrasonic Thickness Gauge
- Digi-Sonic 502 Flaw Detector
- Uniwest MDL US-5200C Bond Flaw Detector w/ Probes for Honey Comb and Laminated Material
- (2ea) Zetec S-5 Sondication Bond Tester
- (4ea) Staveley Mdl BCE 6/12 Batty Charger/ Eliminator
- Zetec Mdl MIZ-6 Conductivity Meter
- Spectroline DSE-100X & DLM-1000 Digital Radiometer w/ UV and Visible Light Detectors
- (2ea) Branson Ultrascope
- (2ea) Magnaflux PN 10090 Magnaflux Standards
- (2ea) Parker MDL DA-400 Contour Probe
- (3ea) X-Rite Mdl 301 Black and White Transmission Densitometer
- Forster Defectometer Mdl 2.837
- (26ea) Digital and Analog Survey Meters to Include ND-2000, ND-2200, Bicron and Victorene 450
- (3ea) Gralab 450+451 Light Timer Controls
- (2ea) Magnaflux FM-104A Digital Conductivity Meters
- (2ea) Zetec 5-3 Audible Bond Testers
- Balleau Sonatest Type CG1 Digital Compra Gage
- Endolux 6 Boroscope Power Supply
- ACMI 95 Fiber Optic Light Supply
- Magnaflux KC-8 Demag Unit
- (4ea) PTW JT8D Outer Combustion Chamber Case Rear Flange O.D Eddy Current Insp. Test Fixture Mdl NDIP-640
- U.S Radium Corp Isolite Photometer
- Wolf X-Ray Film Printer
- NDS RA-500 Rate Alarms
- (5ea) Magnaflux Z-5 Test Panels
- (2ea) PTC MDL # 316 Hardness Tester
- Branson Microdur II Digital Hardness Tester
- Sonodur MDL 100-1 Hardness Tester
- (29ea) Magnaflux & Spectro Lab Black Lights
- Coleman GY2J-934-1 Hardness Tester
- Barcol Impresser Hardness Tester
- Webster Mdl B-75 Hardness Tester

**MAIL CARTS**

(90ea) Wasp Mdl A04178D 8000LB Mail Carts, Mfg 2000 & 2001

**NOTE: A 5% BUYERS PREMIUM  
WILL APPLY TO ALL PURCHASES  
AT THIS AUCTION.**



**Selling Friday, September 1 - Starting at 9:00 A.M.**



US Tool  
English Wheel



Grieve AA-1000 & AA-500 Ovens



Montgomery 6' Power Roller

## HAND TOOLS & TEST SETS

(2ea) Hi-Shear Mdl BP7000 Air Hyd Power Unit w/ Gun & Pulling Heads  
 WCI 120 Cold Expansion Kit  
 (3ea) FTI Cold Expansion Pulling System  
 (3ea) FTI Cold Working Power Packs  
 Hi Shear BP 7000 Air Hyd Unit  
 Enerpac Cable Swager  
 ATI Cable Swager & Pull Tester Kit  
 ATI Cable Swager Kit w/ Enerpac Manual Pump & Elect Pump  
 ATI Terminal Pull Kit Tester  
 Marsh Mdl R1" Stencil Cutter  
 (200ea) ¼ Air Ratchets to Include Chicago Pneumatics, Ingersoll Rand, Sioux  
 (750ea) Pneumatic Rivet Hammers 3, 4, 6, to Include Cleco, Chicago Pneumatic,  
 Ingersoll Rand  
 (500ea) Pneumatic Air Drills to Include Dotco, Arco, Sioux  
 (160ea) Pneumatic Right Angle Drills to Include Dotco, Sioux, Aro  
 (260ea) Pneumatic Right Angle Polishers- Grinders to Include Dotco, Dynabrade,  
 Ingersoll Rand, Arco, Dotco  
 (180ea) Pneumatic Die Grinder to Include Cleco  
 (15ea) 3/8 Air Ratchets to Include Ingersoll Rand  
 (40ea) Jiffy Mdl Rd2 Pneumatic Nut Runners  
 (15ea) Pneumatic Rivet Squeezers  
 (20ea) Pneumatic Rivet Pullers, Various Makes Including Cherry  
 (16ea) Aircraft Tools Inc MDL 5020 & E Hand Rivet Squeezers  
 U.S Tools MDL TP 888 Hand Rivet Squeezer  
 (65ea) Sioux Reversible Ergonomical Cleco Guns  
 Thousands of Pull & Draw Type Cleco's  
 (11ea) Staveley Transit Tripods  
 (40ea) Pneumatic 3/8 Impact Wrenches to Include Ingersoll Rand, Cleco  
 Several Hi Lock Ratchets  
 Bosch Electric Sheet Metal Nibbler  
 Several Hole Finders  
 (10ea) Sioux Pneumatic Orbital Sander  
 Several Snake Drills  
 (3ea) ¼ Blue Point Pneumatic Impact Wrenches  
 Several Pneumatic Sealant Guns  
 Dynabrade Dyna File II Pneumatic Files  
 Laser Products Laser Alignment Tool  
 Sioux Radius Gauges  
 Ingersoll Rand Pneumatic Sabre Saw  
 High Pressure Tire Gauge  
 (2ea) L/G Strut Nitrogen Gauges  
 (8ea) Ohaus 700 Series Triple Beam Scales  
 Steinel Hyper Former Polyurethane Adhesive Applicator  
 Shop Built Fuel Filter Press Differential Test Set, 115 V, 3 Phase Power Supply  
 300 + Micrometers: 0- 12" , To Include: Starrett, Mitutoyo, Martin, Lufkin Helios,  
 Browne & Sharp, SPI, Central,  
 (4ea) Federal & Mitutoyo Digital Micrometer

(42ea) Bore Gauges: Starrett, Mitutoyo  
 (50ea) Venier Calipers: Mitutoyo, Starrett up to 62"  
 (2ea) Sheffield Measurement Tool  
 Several Gauge Blocks & Standards, Brown & Sharpe etc  
 (40ea) Inside Mics: Brown & Sharpe, Starrett, Mitutoyo  
 (30ea) Depth Micrometer  
 Several Telescoping Gauges  
 (19ea) Pacific Scientific T-5 Cable Tensiometers  
 (10ea) Pacific Scientific T60 Cable Tensiometer  
 Chatillion 0-2000 FT LB Torque Wrench Tester  
 Several Hundred Dial Indicators Ames  
 100's of Bucking Bars  
 Link Mdl PS-3 Spring Compressor Tester  
 (4ea) Binks SG 2 Paint Guns  
 (10ea) Dial Ind Thickness Gauges  
 (2ea) Snap on Bushing Driver Set  
 Enerpac TM-5, 0-1000Lb Dynamotors  
 Rigid Tube Flaring Tools  
 Jackscrew Free Play Tester  
 Dillon Mdl WI-120 D Tensile Tester Control Panel  
 Fowler Microsurf 322 Drilling and Reaming Standard  
 Starrett Radius Gauges  
 Fowler Double Column Height Dial Gauge  
 Several Inside Diameter Tapes  
 (1ea) Gauge Block Tester, Do All  
 Several Pin Gauge Sets  
 (2ea) Starrett 6 & 18" Precision Level  
 Chatillon Push/Pull Tester  
 Hand Swagers & Crimping Tools  
 Torque Wrench  
 Federal Magnification Standard Kit  
 (1ea) Hunter MDL # 0-200 Force Gauge  
 Several Pneumatic Vacs  
 (4ea) P&W C1 Blade Airfoil Thickness Gauges  
 Rivet Cutters  
 Several Go-No-Go Gauge  
 New Repair Parts For Ingersoll Rand, ARO, Gardner, Dotco, Cleco, Huck, Cherry, Mac,  
 Chicago Pneumatic, Makita, Poter-Cable, Black & Decker, Milwaukee, Cyelo,  
 Dynabrade, Semco, Sweeney, To Include Bearings, Collets, Overhaul Hardware,  
 Housings, Gears, Pistons, Valves, Guides, Gaskets, Squeezer Heads, Triggers,  
 Springs, Armetures, Motors, Cords, Handles, Wrenches and Misc Overhaul Parts  
 Vacuum Filters, Nozzles and Repair Parts  
 (1ea) Standard Calibrated Ball Tester  
 (1ea) Fuel Meter Ring, Mitutoyo-7"  
 Industrial Fluid Tester #7540 Mfg Leica  
 (1ea) Refractometer, Valentine  
 (1ea) Fluke MDL # 52 Digital Thermometer

### NOTE:

There Was a Late Addition of Approx. 60 Pieces Added at Last Minute Including Empire Blast Cabinets, Rortex Hole Punch, Pedestal Grinders, Fire Proof Cabinets, Torit Dust Collectors, Pneumatic Paint Systems, Kent Floor Scrubber, Etc.



Greive AB-650 Oven

**4 Days** **AVIATION AUCTION** **2 Locations**

**Equipment Surplus to Ongoing Needs of Northwest Airlines**



Bridgeport Milling Machines

**Tuesday & Wednesday  
August 29 & 30, 2006  
5101 NORTHWEST DR. BLDG. B**

**Thursday & Friday  
August 31 & September 1, 2006  
7500 AIRLINE DR. - BLDG. C  
HANGAR 6**

**Both Addresses Are Located at Minneapolis/St. Paul Int'l Airport**

**Absolute Auction**

**Starting At 9:00 A.M. All 4 Days  
Sales Site Phone: 612-726-8720**



Bridgeport Milling Machines



Johnson Car Type Furnace

**STAR MAN BROS. AUCTIONS INC.**

1240 Royal Drive ■ Papillion, NE 68046-2082  
(402) 592-1933

Return Service Requested

**PRSRRT FIRST CLASS  
U.S. POSTAGE  
PAID  
MAIL U.S.A.**

First Class



LeBlond 15" Lathe



Overbeck 6001 CNC Grinder