ON SITE PUBLIC AUCTION

COMPLETE POWDERED METAL PARTS MAKER FACILITY

CINCINNATI PM PRESSES FROM 200 TO 1650-TON

ONSITE AUCTION: Thursday, January 23rd – 10:00am CT
Also Online: Via Bidspotter, (online pre-bidding opens Monday, January 6th)

INSPECTION: Wednesday, January 22nd – 9:00am to 5:00pm CT
LOCATION: 9700 Waveland Avenue, Schiller Park, IL 60131

1650-Ton Cincinnati 1650-DCII-8 Powder Compacting Press
Cincinnati 1330-HR-3.5 CNC Hydraulic Restrike Press
880-Ton Cincinnati 880-DCII-7 Powder Compacting Press
Abbott 36" Wide Belt

ALSO BID ONLINE AT: BidSpotter.com

105 Revere Dr., Suite C
Northbrook, IL 60062
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www.pplauctions.com

248.858.8380 • detroitprocessmachinery.com
15% Buyer’s Premium will apply onsite and 18% online
MODEL 1650-DCII-8 QUICK CHANGE DIE SET
2002 1650-Ton Cincinnati Powder Compacting Press, Mdl. 1650-DCII-8, Quick Die Change Series, w/(2) Quick Change Die Sets, S/N 52313 and 52314, Ejection Cap. 500-Ton, 12" Ram Stroke, 6" Ram Adj., 8" Depth of Fill, 4" Die Float Stop, 6-12 Strokes Per Min., 3 Platen, Cincinnati PM Compacting Control Center PLC, Error Read Control, S/N 52312 [62]

Automation in Front of Press 62:
Fanuc 6-Axis Robot, Mdl. 710iC50, w/ACE Automation System, Fanuc 6-Axis Robot, Mdl. M20iA, w/Ace Automation System, Alpha Check Weigh in Line Conveyor Scale, Conveyors

Take Your PM Operation to the Next Level... World Class High Tonnage PM Presses Available

MODEL 880-DCII-7 QUICK CHANGE DIE SET
1996 880-Ton Cincinnati Powder Compacting Press, Mdl. 880-DCII-7, Mechanical Design, Quick Die Change Series, w/(2) Quick Change Die Sets, S/N 49124 and 49328, w/Quick Change Die System, Ejection Cap. 200-Ton, 10.25" Ram Stroke, 5.5" Ram Adj., 7" Depth of Fill, 3.375" Die Float Stop, 5-15 Strokes Per Min., 3 Platen, Cincinnati PM Compacting Control Center PLC, Error Read Control, Cutler Hammer SV8000 Transformer, 75 Hp Motor, w/Variable Speed Control, Manipulator Arm, Budgit Hoist, S/N 49123 [60]

ROBOTS & AUTOMATION
In Addition to the 2 Robots Near Press 62 Noted Above and the 10 Robots Near the Furnaces Noted in the Section Below, We Offer: (2) 2011 Fanuc M20iA, R30iA IRVision Controls, S/N's R11X00464 [53], and R11600370 [61], Plus ACE Automation Cells

MODEL 880-DC-7 QUICK CHANGE DIE SET
1993 880-Ton Cincinnati Powder Compacting Press, Mdl. 880-DC-7, Mechanical Design, Quick Die Change Series, w/(2) Quick Change Die Sets, S/N 47556 and 47557, w/Quick Die Change System, Ejection Cap. 100-Ton, 10.25" Ram Stroke, 5.5" Ram Adj., 7" Depth of Fill, 3.375 Die Float Stop, 5-15 Strokes Per Min., 3 Platen, Cincinnati PM Compacting Control Center PLC, Error Read Control, Cutler Hammer SV8000 Transformer, Manipulator Arm, Budgit Hoist, S/N 47555 [59]
CINCINNATI PM RESTRIKE PRESS, MODEL 1330-HR-3.5 CNC HYDRAULIC – INSTALLED NEW IN 2015

Intro: The Cincinnati 1330-HR-3.5 CNC Hyd. Restrike Press is a Hydraulically Driven, Tie Rod Construction Press Designed Specifically for Automated Sizing, Calibration and Coining of Sintered Metal Parts


MODEL 220-PM-6 PARTS MAKERS SERIES
1979 220-Ton Cincinnati Powder Compacting Press, Mdl. 220-PM-6 Parts Makers Series, Mechanical Design, Ejection Cap. 100-Ton, 8” Ram Stroke, 5” Ram Adj., 6” Depth of Fill, 0-3” Die Float Stop, 12-30 Strokes Per Min., S/N 41635 [54]

MODEL 750-C-6 RIGID REFLEX
1975 825-Ton Cincinnati Powder Compacting Press, Mdl. 750-C-8, Rigid Reflex Series, Mechanical Design, Ejection Cap. 200-Ton, 3 Platen, 8” Ram Stroke, 5” Ram Adj., 6” Depth of Fill, 0-3 1/4” Float Stop, 10 Strokes Per Min., S/N 39556 [50]
**3) MODEL 200-C2-6 RIGID REFLEX**

1990 200-Ton Cincinnati Powder Compacting Press, Mdl. 220-6 Rigid Reflex, Mechanical Design, Ejection Capacity 100-Ton, 8” Ram Stroke, 5” Ram Adj., 6” Depth of Fill, 0-3” Die Float Stop, 10-30 Strokes Per Minute, S/N 41314 [55]

1986 200-Ton Cincinnati Powder Compacting Press, Mdl. 220-6 Rigid Reflex, Mechanical Design, Ejection Capacity 100-Ton, 8” Ram Stroke, 5” Ram Adj., 6” Depth of Fill, 0-3” Die Float Stop, 10-30 Strokes Per Minute, S/N 44458 [56]

1973 200-Ton Cincinnati Powder Compacting Press, Mdl. 200-C-6 Rigid Reflex, Mechanical Design, Ejection Capacity 100-Ton, 8” Ram Stroke, 5” Ram Adj., 6” Depth of Fill, 0-3” Float Stop, 10-30 Strokes Per Minute, S/N 38590 [48]

**Auctioneer’s Note:** Presses with Pettigrew Auger Loaders and Raw Material Bin Tippers will be Sold, with the Press

(6) KUX PRESSES 30-TON TO 125-TON

(3) 125-Ton Kux Machine Wickes Powder Compacting Press, Mdl. 1100, Est. 1972, Mechanical Design, Dual Action, 6” Max. Dia. of Compact, 6” Max. Dia. of Fill, Floating Die Capable, 6-15 Strokes Per Min., S/N 3615 [28], S/N 1210 [39], S/N 1182 [40]

(2) 1970 75-Ton Kux Machine Powder Compacting Press, Mdl. 65B, Mechanical, Dual Motion, Ejection Cap. 75-Ton, 3” Depth of Fill, 4” Max. Compact Dia., 7.5 Hp Motor, Max. 25 Strokes Per Min., S/N 1001W [35], S/N 1263120 [36]

30-Ton Kux Machine Powder Compacting Press, Mdl. 60B, Mechanical, Dual Motion, Ejection Cap. 15-Ton, 2” Depth of Fill, 2-1/2” Max. Compact Dia., 5 Hp Motor, Max. 45 Strokes Per Min., S/N 460156 [27]

**PRESS POWER TAKE OFF UNITS**

(3) Automated Cells & Equipment 12” x 84”. Vibratory Parts Conveyors, Mdl. 1030 IA-714-2 S/Ns 28231, 28261 & N/A, (2013), w/Picker

Automated Cells & Equipment 12” x 72” Vibratory Parts Conveyor, Mdl. 1030-GA-1003 S/N 29561, (2015) w/Picker

(2) Automated Cells & Equipment 8” x 84” Power Belt Parts Conveyors, Mdl. 1030-1A-714-1, S/Ns 23281 & 28281, (2013), w/Picker

**POWDER METAL RAW MATERIAL**

Qty. of 5,000 Lb. Gaylords Each

(8) Hoeganaes FN206M

(6) Hoeganaes FC208S

(7) Arc Metals FC0207

(4) Hoeganaes FC0207

(8) Hoeganaes FN206M

(3) Hoeganaes FNC226

(2) Hoeganaes FNC226

Join us to bid live on site – theatre style
(6) BELT & HUMPBACK STYLE SINTERING FURNACES FOR PM
Fanuc 6-Axis Robots: (3) 710iC50, (6) M20iA, (3)220iD, (1) 200iD7L, (1) 200iD4S, Some with IR Vision
Auctioneer’s Note: Furnaces May be Sold Two Ways: Bulk with Robots/Automation and Separately, whichever has a higher value is how they will be Sold.

ABBOTT 36″ WIDE BELT


(2) DREVER 24″ WIDE BELT
1997 Drever 2050 F Degree Wire Mesh Belt Sintering Furnace, 24″ W Belt, 71″, 6″ Overall Length (Including 18″ Take-Up), 4 Zone, Includes: Charge Table and Drive, RBO, Sintering Furnace, Slow Cool Section, Convecool, Discharge Table, Atmosphere Control Panel, Rapid Burn Off 480,000 Btu/Hr, Sintering 2,170,000 Btu/Hr, Variable Speed Contrex Programmable Belt Drive, Pull Belt Style, Min. 5″ Clearance Above Belt, Honeywell Controls for Zones and Overtemp Protection, Natural Gas Fired, Nitrogen, Endothermic Gas, Purge, PLC Control System, S/N J956-E507, DWG EA42113 [Furnace # 5]

Automation Beside Furnace 5: Auto Infeed System, w/2014 Fanuc, Mdl. M20iA 6-Axis Material Handling Robot, S/N F156681, Return Conveyor 1999 Drever 2050 F Degree Wire Mesh Belt Sintering Furnace, 24″ W Belt, 71″, 6″ Overall Length (Including 18″ Take-Up), 7″ Open Height, 4 Zone, Includes: Charge Table and Drive, RBO, Sintering Furnace, Slow Cool Section, Convecool, Discharge Table, Atmosphere Control Panel, Gas Fired Rapid Burn Off, 480,000 Btu/Hr, Sintering 2,100,000 Btu/Hr, 1000 Lb/Hr Net Cap., 16 Lb/Ft² Loading, Honeywell Controls for Zones and Overtemp Protection, Contrex Speed Control for Belt, Pull Belt Style, Natural Gas Fired, Nitrogen, Endothermic Gas, w/Gas Train, Purge, PLC Control System, S/N J956-E507, DWG EA42113 [Furnace # 4]

CREMER FURNACE 24″ WIDE BELT
Cremar Sintering Furnace, 2200 F Degree Elevated Heat Walking Beam Sintering Furnace, 24″ W, 75′ Overall Length, Up to 1500 Lb/Hr Production Cap., 5 Heating Groups, Natural Gas Fired, Siemens Simatic PLC Micromaster (MM4) Control, 5 Zone, Jumo Dtron 304 Controls, Manual Loading [Furnace # 3]

AMMONIA DISSOCIATORS
(2) Ammonia Dissociators, Mdl. QAG1500E, 1500 CFH, 1750 Deg F, S/N 8508W22D (On Mezz), S/N 6103Y3-AD (Spares)

1961 Flint Steel Corp 10,000 Gallon Ammonia Tank, 106″ ID, 24-10 Length,.4576 Head Thickness, .77 Shell Thickness, Max. WP Lbs 250, Max. Temp Deg, F 115, Ocean AGC no E1931, S/N 51931

(2) ELECT. FURNACE 24″ AND 30″ WIDE BELT
Elect. Furnace 2050 F Degree Roller Hearth Style Wire Mesh Belt Sintering Furnace, 24″ W Belt, 75′ Overall Length, 5 Zone, Honeywell Control for Temp and Overtemp Protection, Contrex Belt Speed Controller, Jet Cool Fan w/Variable Speed, 281 KVA, Natural Gas Fired & Elec., Nitrogen Atmosphere, 2100 F Degree Max. Operating Temp., Net 1300 Lb. Cap./Hr, 11″/Min. Belt Speed, 1/8″ Min. Min. Belt Speed, 1,818,000 Btu/Hr, Purge, S/N C5392F1 *Note: 2 New Wire Mesh Belts in Box Included [Furnace # 2]*


Elect. Furnace 2050 F Degree Roller Hearth Style Wire Mesh Belt Sintering Furnace, 30″ W Belt, 75′ Overall Length, 5 Zone, Honeywell Control for Temp and Overtemp Protection, Contrex Belt Speed Controller, Jet Cool Fan w/Variable Speed, 281 KVA, Natural Gas Fired & Elec.., 2100 F Degree Max. Operating Temp., Net 1300 Lb. Cap./Hr, 11″/Min. Max. Belt Speed, 1/8″ Min. Min. Belt Speed, 1,818,000 Btu/Hr, Atmosphere, Nitrogen Purge, S/N SS5523-C1 *Note: 2 New Wire Mesh Belts in Box Included [Furnace # 1]*


LEEDS & NORTHRUP HOMO FURNACE PIT STYLE
1979 Leeds and Northrup Steam Type Homo Pit Furnace, Mdl. 09528-4844XV, 1250 F Temperature, 72 Kw, Chromolox, Mdl. CES-60 Elect. Boiler, Control, Comes, w/6 Stacking Buckets, 3 Buckets Fit in Furnace at Once, S/N 79-25640-1-1 [362]

PRESS AND FURNACE SUPPORT EQUIPMENT
Cress Elect. Furnace, Mdl. C1232D, Assorted Fixtures, (3) Portable NDT Stations, w/Conveyors, Inspection Stations, Post Sintering Wash Station, (2) Multi Head Brush Deburr Cells [203, 204]

ENDOTHERMIC GENERATORS
Surface RX Endothermic Generator, Mdl. Size RX 50-100, Natural Gas Fired, 1,000 Btu/Cu. Ft., 10,000 CFH Cap., .880 Cu. Ft./Hr, 1950 Degree F Max. Temp., Upgraded PLC Controlled, S/N AC-42661-1 [626]

R&G Aten Endothermic Generator, Mdl. EN6000, Natural Gas Fired, 1,000 Btu/Hr, 6000 CFH Cap., 1950 Degree F Max. Temp., S/N 78081 [624]

R&G Aten Endothermic Generator, Mdl. EN6000, Natural Gas Fired, 1,000 Btu/Hr, 6000 CFH Cap., 1950 Degree F Max. Temp., S/N 79091 [625]

Surface RX Endothermic Generator, Mdl. Size T-3-N, Natural Gas Fired, 1,000 Btu/Cu. Ft., 5600 CFH Cap., 395 Cu. Ft./Hr, 1950 Degree F Max. Temp., S/N BX-36635-1 [613]

Online bidding also available via bidspotter
CNC MACHINING

2002 Haas CNC Vertical Machining Center, Mdl. VF-2D, 14”x36” Table, Programmable Coolant, Cat 40, 24 Atc, Creative Evolution CNC Control, Vop-D, 20-Hp Vector Dual Drive, 15,000 Rpm Max. Spindle Speed, S/N 28598
Haas 4th-Axis Available

2005 Muratec Twin Spindle CNC Turning Center, Mdl. MW-120 4.5T, Type 1178, Muratec/Fanuc CNC Control, Dual 8 Station Turrets, Mayfran Chip Conveyor, S/N 00M4952-1, (2) Murata WF14L-1601-RS50EP-182L Chain Driven Pallet Tables, S/N 04KX246810001 [140]

1999 Muratec Twin Spindle CNC Turning Center, Mdl. MW-120, Fanuc Series 18i-T CNC Control, Dual 8 Station Turrets, LNS Turbo HB, Mdl. 67508064 Chip Conveyor, S/N 13575003918, Conveyor, Accumulator Table And (1) Murata WF14-160-2W Chain Driven Pallet Table, S/N 2269, S/N 9KX93218002 [141]

1999 Muratec Twin Spindle CNC Turning Center, Mdl. MT-12 5.5T, Fanuc Series 16-T CNC Control, Dual 8 Station Turrets, Economoto Chip Conveyor, S/N 9KX93068830 [142]


TOOLROOM

Blanchard 36” Rotary Surface Grinder, Mdl. no 20k, Electromagnetic Table, 18” Dia. Grinding Wheel, Approx. 21-24” Range of Grinding Wheel Over Table, 6-33 RPM, Feed Rate .004 -.08 IPM, Trabon Lube, Wet Base, S/N 13688

Agie Mondo Star 50 EDM, w/Futura V Control,42” x 28” x 18”, Worklight Option, Capacitance Option, I/O Module Assembly, Filter, C-Axis, System 3R, 5 Station Tool Changer, Fire Extinguisher, Programmable Flush, Electrode Holders, Plumbing Kit, S/N M50-STAR-00308

Mori Seiki 24” x 48” Geared Head Lathe, 14” 4-Jaw Chuck, 28-1350-RPM Spindle Speed Range, 2-Axis Heidenhain Dro, Tailstock, Tool Post, Ready Rest, S/N 763

Colchester 600 Lathe, 13” x 48”, 8” 3 Jaw Chuck, Tailstock, Tool Post, Sony 2-Axis Dro, Ready Rest, 20-3250-RPM Spindle Speed Range, S/N VM0345

Hardinge Secondary Operation Lathe

Bridgeport 2 Hp Vertical Mill, 9” x 48” Power Table, 6” Column Riser, Accurite 2-Axis Dro, S/N 12BR242639

Johanson Floor Type Drill

Mitsui 6” x 12” Surface Grinder, Heidenhain 2-Axis Dro, S/N 82063263

Boyar Shultz 6” x 12” Surface Grinder, S/N 6655

Reid 6” x 18” Surface Grinder, Penico Rotary Grinding Fixture, S/N P542

Dake 50-Ton Cap. H-Frame Shop Press

Kasto 9” x 16” Power Hack Saw

(2) Torit, Mdl. Vibrashake RVS-5 3 Hp Dust Collectors

Crystal Kleen Parts Washer

FINISHING MACHINES


Giant Vibratory Bowl Series Finisher, Mdl. GO-30, 30-Cu Ft Cap., S/N 1966 [137]
Labs/Equipment:

**Laboratory**
- Complete Met Lab: Testers by: Wilson, Brinnel, Scherr Tumico
  - 22” Optical Comparator
  - Polishing Machines
  - Gages, Inside/Outside Micrometers
  - Leica DM IRM Microscopes
  - Scales, Wire Dia. Gage Pins, Pin Boxes, Gage Block Sets
  - Profilometers, Fixtures, Rings, V Blocks, Clamps
  - Fowler Bowers Holematic Gages, Astral Precision Tables

**Inspection**
- MTS Testline Component Test System, Mdl. 244.31, S/N 0120927, w/Model 458.10 Micro Console
- (3) TMS (The Modal Shop), Mdl. NDT-Auto, Non-Destructive Resonant Testers
- 14” Belt, Koyo Direct Logic 1999 Brown & Sharp CMM, Mdl. Mistral 775, Renishaw MH8 Probe, PC
- 36” x 50” Table, 0699-9223

**Drills & Press**
- Denison 6-Ton Cap. Multipress C-Frame Hyd. Press
- (4) Elliott Single Spindle Sliding Head Drill / Grinder
- Custom Designed & Fabricated Indexing Drill Unit

**Compressors & Dryers**
- Sullair 200 Hp Rotary Screw Air Compressor, Mdl. 32/25-200i AC/AC, S/N 003-76260
- Sullair 150 Hp Rotary Screw Air Compressor, Mdl. 25-150 AC/AC, S/N 003-77925 [206]
- SPX/Hankison Air Dryer, Mdl. HES 2000, 2000 SCFM Cap., S/N 100002925199
- Sullair 350 HP Air Compressor, Mdl. TS-32, Pallet Type, Water Cooled, S/N 003-113397 [Mid], Comes
- w/2.5 Hp Transfer Pump and Thermotech Compressor Fluid Chiller, Mdl. PFCC636A, 909,460 BTUH, 119F
- In, 99F Out, 91F Ambient, Refrig. PG, 385 PSIG, S/N 488374-01

**Miscellaneous Equipment**
- Infrapak Sidewinder Pallet Wrapper, S/N 43259T
- Texwrap Packaging 22” Shrink Wrap Tunnel
- 20” Paper Filtration Unit
- 300+ Wire Mesh Stackable Bins, 42” x 32” x 26”
- 100+ Roller Wire Racking, Up to 13 Shelves
- Steel Bin Racking, w/Assorted Scrap Steel

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ATTENTION: MACHINERY BUYER

200-Ton Cincinnati Powder Compacting Presses

2 Available

880-Ton Cincinnati Powder Compacting Press

3 Available

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PARTS MAKER FACILITY

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BidSpotter.com
18% buyer’s premium will apply to online purchases

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