# Powder-Tech Associates, Inc.

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## THE USED P/M EQUIPMENT NEWSLETTER VOL 24 NO. 1 3/1/2009

## New Information on the Newsletter

March 1, 2009

With the beginning of our 25 th year, March 1, 2009, we no longer offer the printed copies of our newsletter, and are sending it to you by E-mail. We believe this newsletter has some value to the powder metal industry, but if you do not wish to receive it, please send us a note at ptech@shore.net and we will promptly remove your name and E-mail address. It does not take much of our time to edit it the letter, and, for that reason, we no longer charge a subscription fee. We will E-mail copies to anyone who would like to receive it, and we hope you will pass it along to the responsible person in your company. About 25% of our subscribers have previously elected the E-mail version and so it seems to work well for some people. Our hope continues to be that at least one person in every powder metal parts producer will want to receive the letter. This issue is going to a person in about 150 different PM companies. Our other users include powder producers, equipment manufacturers and some used equipment dealers. If you are not already receiving the letter by E-mail and would like to do so, please send us your name and Email address at ptech@shore.net. We do not share your name or E-mail address with any other organizations.

## Thank you, Lanny Pease

Contract services like sintering etc. and replacement parts are now listed together on page 8, followed by various used lab equipment dealers who do not otherwise advertise, on page 9, and EQUIPMENT WANTED begins on page 10.

Anyone receiving the newsletter is welcome to submit advertisements for equipment, products or services that they want to buy or sell. There is no charge for such ads. Please send in ads by the 23rd of the month. We run ads for up to a year, and appreciate hearing as soon as equipment is sold so that we can keep our letter up to date.

### Equipment for Sale, March 1, 2009

Capstan has for immediate sale the following equipment. Equipment is located in Anaheim, CA.

- (3) Stokes R4, 20 Ton compacting presses.
- (5) Dorst TPA 45 compacting presses.
- (1) Dorst TPA 50 compacting press. Rebuild required.
- (2) Alpha 250 ton compacting presses
- (1) Alpha 750 ton compacting press
- (1) Aida 60 Ton Coining press.
- (1) Aida 100 ton Coining press.
- Ceramic belt sintering furnace. Very low hours. 16" belt. Excellent condition.
- (1) Humpback belt sintering furnace. 18" belt. Good condition.

For additional information, please contact Dave Algier or Chris Doughty (508) 384 3100 ext 640 or ext 616.

#### For Sale:

Wire mesh belts and globars for immediate sale. All items are in new condition. FOB St. Marys, PA. Contact Sinterite Furnace Division customer service at 814-834-2200, ext. 31 Wire mesh belts:

One 12" W x 55 ft. L, 304 SS, B60-38-14 \$1,381.

One 12" W x 20 ft L., 314 SS, B36-10-10, \$385.

One, 12" W x 60 ft L, 314SS, B366-10-10, \$1,156. Cont. p 2

One 18" W x 19 ft L, 314 SS, B36-10-10, \$1.309.

Two 18" W x 126 ft L, 314 SS, B36-10-10, \$8.680 each

One 18" W X 13 ft L, 314 SS, B36-10-10, \$896 One 20" W x 8 ft 7" L, 314 SS, B36-10-10, \$369.

One 24" W x 140 ft L, 314 SS, B36-10-8-10 \$6,355.

Silicon Carbide Heating Elements

60 pcs type CRL 54 x 22 x 1 1/2", \$178. each 28 pcs type RR 52 x 32 x 2 1/8", \$226. each 20 pcs type RR 59 x 24 x 1 1/4", \$90 each 15 pcs type LL 46 x 20 x 1 1/14", \$74. each 14 pcs type CRL 58 x 22 x 1 1/2", \$179. each 13 pcs type RR 42 x 18 x 3/4", \$47. each 11 pcs type LL 45 x 17 x 1 1/4", \$75. each Additional globar sizes are available, call for details

For Sale:

Stokes Presses, 542, F, F-4, T-4
Dorst Presses, TPA-12 nd TPA-20/3
Cincinnati C-100 2 1/2 Press, 100 ton
Baldwin 200A Press, 200 ton, 6" fill
Stokes Rotary Presses, B-2, 4 ton, DS-3, 10 ton
Sweco Screeners, 24", 30", 48"
Tyler 8" Rotap

Bico Lab jaw crusher and Bico Lab disc pulverizer Denver Roll Crusher, 10" x 6" Globe barrel tumbler/finisher

Patterson-Kelley Lab Blenders, 4 qt.,8 qt. and 16 qt. Patterson-Kelley 1 cf Twin Shell Vee blender, 500 lb rating Patterson-Kelley 2 cf Twin Shell Vee blender, pin bar

Patterson Kelley 3 Cu. ft. twin shell Vee blender, SS Patterson Kelley 5 cu. ft. twin shell Vee blender, SS Stokes 43B Granulator, stainless steel Simpson Lancaster Muller Mixers, 18" diameter Carver lab press, 12 ton, 6" x 6" platens, hand operated Littleford M-20, high intensity plow mixer, SS jkt., 3/4 cu.

rt. Blue M Frictionaire Ovens for Haz. Locations, (2) Contact: Tom Suhv

Detroit Process Machinery, Inc.

Tel: 685 469 0323

E-mail: sales @detroitprocessmachinery.com Website: www.detroitprocessmachinery.com

For Sale: SPRING SALE

All Inventory Prices Discounted 25% - 50% or More

## Typical Examples:

Lindberg Steam Pit furnace, 40" diameter x 60" deep with alloy baskets and SCR, was \$40,000. now \$20,000.

Surface Combustion 10,000 cfh Electric Endo Generator with 4 alloy retorts was \$62,500. now \$22,000. (Retorts worth the purchase price)

There are over 200 furnaces and ovens in inventory, many rebuilt.

See our new "Furnace Parts" website, www.htfponline.com.

Contact: Gerald D. Lennox Furnace Finders of Georgia 1445 General Arts Rd. Conyers, GA 30012

Tel: 770-922-9816, FAX: 770-922-2034

Web: www.furnacefinders. com E-mail: furnfind@mindspring.com

## Equipment for Sale, December 1, 2008

For Sale, in Germany:

Dorst Presses: one TPA-30, three TPA-40, one TPA 60, one TPAn-100, one TPA-180, and one each Bussman 100 ton hydraulic and 200 ton presses.

Contact: Ryan Crosson Berlin Germany

E-mail: aadvancedberlin@Gmail.com

## Equipment for Sale, November 1, 2008

For sale: High Tech Sintered Metals, Naugatuck, CT or Sale/Lease - All or part of the equipment, with or without real estate. Located in Modern Biz Park. 18,500 SF bldg. It also could be multi-tenant in an enterprise Corridor.

Call: Tom Hill III, 203-206-8631

For Sale... in stock

Cinci 220DC-1 Press, 220 tons, spare die set. Stokes Presses: 30 in stock, from 1/2 to 50 ton Mannesman Meer Press, MPM-6 press, 6 ton, die set, Dorst Presses: 4 ton, 16 ton, 20 ton, 22 ton, 33 ton

Hydramet 30 ton, 5" fill, die set

Pentronix: 1204 (4ton), 1602 (16 ton), 3101 (35 ton),

3102 (35 ton)

Dougherty #DPM-15, 15 ton, die set

Blenders, mixers, vacuum dryers, pulverizers, granulators, etc.

New replacement parts for Stokes and Baldwin presses New replacement parts for Stokes granulators Complete Inventory at www.aadvancedmach.com

Contact: Tim Crosson or Ryan Crosson Aadvanced Machinery, Inc. 35044 Automation Dr. Clinton Township, MI 48035

Tel: 586 790 1717 FAX: 586 790 1871 E-mail: service@aadvancedmach.com

## Equipment for Sale, October 1, 2008

New, 2 each, De-lubrication Furnaces. 12 inch belt, three 48" zones, air, electric, 1400°F operating temperature. Designed to retrofit pusher furnace or return conveyor to increase furnace throughput.

New, Custom designed part oil spray conveyor. Continuous belt, magnetic pick up and transfer from 18" belt furnace, oil spray, air strip, one to four channel output conveyor capability. Portable.

Used - CI Hayes G2000 exothermic generator

Contact Bill Gasbarre
Gasbarre Products, Inc.
Sinterite Furnace Div.
Tel 814 834 2200
bgasbarre@gasbarre.com

## Equipment for Sale, September 1, 2008

For Sale: Pusher Plates

Sunrock Ceramics has developed a new high alumina pusher plate designed specifically for severe cycle hydrogen atmosphere sintering. Sunrock processes the plates in a variety of common sizes. The material, called HPA-CG, has been providing extended service life in very demanding applications and has been qualified by a number of leading furnace manufacturers and PM parts producers. For more information or to request samples, contact Doug Thurman at dthurman@sunrockceramics.com.

Sunrock Ceramics Company 2625 S. 21st Ave., Broadview, IL 60155, Tel: 708 344 7600 or FAX ...7636.

For Sale: Tablet Press

DDS2-Scheu & Kniss rebuilt in 2002, less than 5,000 revolutions since then. 23 station, 2 1/8" fill, 440V, 3 phase drive.

Contact: kenneth\_f\_ryder@sbcglobal,net

Equipment for sale August 1, 2008

For sale:

Sinterite Belt Conveyor Furnace, 120" Preheat, 2 Zones, Metallic Muffle; 120" High Heat, 2 Zones, Ceramic Muffles; 190 Kw, 480/3/60; 4" Work Opening X 12" Belt; 54"W X 75"H X 49'-0" Long, All New Cooling Sections

Price: \$70,000.00

C.I. Hayes Model MY-040860-60PH,
High Temp Pusher Furnace, 4" Opening X 8" Wide
Tray Pre Heat, 60"Long, 1100 Deg. C, 3 Zones, 21 Kw
High Heat, 60" Long, 1500 Deg. C, 3 Zones, 45 KW
Automated Pusher And Return Conveyor System..
Everything Mounted On A Single Skid 70" H X 86" Wide
X 395" Long
Price \$80,000.00

ABBOTT MODEL 6ZSCR-18-432HH6-VC-2150. 18" wide belt, 4"+ opening over the belt, 432" heating chamber (silicon carbide muffles), six zones, 36" long vari-cool with 162" of additional cooling including two curtain boxes. 2150 deg.F. max temp., piped for dissociated ammonia atmosphere and nitrogen purge, 335 kw @ 480/3/60,Honeywell UMO 800 controller/programmer, OAD: 84" w x 90" h x 720" L price: \$160,000.00 OBO

C.I. Hayes High Temp. Tube Furnace, Model MY-0002.528, 2-1/2" ID Tube x 28" Long Heating Chamber, 1700°C, 10.5 KW, Single Zone Control with O. T. Protection, 75" H x 32" W x 91"L, Hydrogen Atmosphere Price \$15,000.00

C.I. Hayes VCT-09.518 vertical top load vacuum furnace, 45KVA, 220/3/60 Load size: 9.5" Dia. X 18" deep, max temperature 1650°C. Mechanical pump/blower combo. Refurbished for semi auto operation. Additional options available.

CM High Temperature Pusher Furnace
Model #488-120-3Z-480V-3PH-A, S/N 0000891
Recommended tray size: 8" x 12" x 5/8" Alumina
Preheat: 90", 3 zones, 110°C, 66 KW, Metallic muffled
section High heat: 120", 3 zones, 1800°C, 135 KW
Height over hearth: 7", Automatic doors both ends
including atmosphere flushing and burn-off stacks.
Atmosphere: Hydrogen with Nitrogen Purge
Cooling Sections: 2 at total length of 120"
Screw Drive Pusher and Load Return Conveyor System
OAD: 87" H x 132" W x 57'-0" L

The furnace was tested for operation at 1800°C, but used for two years at 1200°C

Price: \$310,000.00 OBO

Beavermatic Model 24x36x24GIT Tempering Oven, work load area 24" x 36" x 24"h, 750# gross load rating, operating temp. 350-1400 deg. F, 480,000 BTU indirect gas fired, 10,000 BTU after burner retrofit package, 2 HP alloy circulation fan, NEMA 12 cabinet with Eurotherm controllers & overtemp. Instruments, Honeywell circular chart recorder.

Purchased in 2002, has less than 200 hours use. Price: \$25,000.00

Contact: Dale Petrarca D & S Sales

Riverside, CA 92509

Tel: 951 681 3336 or FAX:951 681 4636 dands-sales@sbcglobal.net

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Equipment for Sale, July 1, 2008

**Business for Sale:** 

If you are looking for a starter powder metal company that has the capability to expand and has mostly all what is needed to take over the operation immediately, this is the chance you have been waiting for. Owner wants to retire due to family crisis. Will sacrifice for a good deal. Please call 860 681 7947 or 203 755 3859.

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For Sale:

Advantage Max-Portable chiller TM 2000 LE, Model MK-7-5W-41 HRX, S/N 86353, 460V. 3/60

Universal Media Blast Machine, Model# 72-DH-DC20, S/N 0430, 6' wide x 3' opening

Lindberg 1500°C Heavy Duty tube furnace Type 54879, 37.5 kW, 1 Phase, S/N A010208, 240 V, 50/60 Hz

Stokes Vacuum Pumps (NEW)Model 149 -MBX,80 Cfm, Pump Motors: 480V,60Hz with Stokes Blowers Model 306-401 (2ea.)

Welch Duoseal Vacuum Pump, Model 1403, S/N 12575

Kinney Vacuum Pump KD-30 with motor and oil mist eliminator

Kinney Vacuum Pump with motor KC-15 F

Despatch Oven , Model V-29 HD, S/N 126016, Operating max. temp.650° F, 2' Deep X 3'High X 3'Wide. 3 PH 480 Volts, 60 Hz.

Hydramet Press, Model HC-12-,S/N H-2110,Hyd.Sys.No. HS-5325-1 with auxiliary lower ram.

Dorst 2 cu.ft. Double Cone Vacuum Dryer ,Type DKM 80, SN: 6434 G. interior stainless steel with vacuum pump no vacuum system.

Fitzpatrick Standard Homoloid Machine ,Model WD45JT( NEW )Standard throat and pan, 3 speed, 7 ½ HP motor with starter, standard cast oval grooved ring discharge, swinging blade rotor. Complete with 24 carbide swing blades, extra rotor hub, 6 screens with openings of .033,.020,.065, .050, .079, .040 and manual screw feed hopper.

Rampe Tumbling barrel with outside heating elements, unlined, Model TC-4.

Rampe Tumbling barrel without heating elements, Lined, Model TC-4V

Bico 4" Roll Mill Crusher

Paul O Abbe Jar Roller Mill 2 Tier, 2" Diam. X 12" Long, Stainless steel, 10 Kg. Jar

Paul O. Abbe, Tumbler Mill, Model No., HP ½., Volts 115/230. with 10 Kg. stainless steel jar.

Buehler Manual Abrasive Cut Off Machine, Cutting Wheel 12", Cutting Cap. up to 4", Model #10-1000- 260, S/N 300-A-1794, Volts 230, Hz60, Ph 3, Equipped with section samples up to 4" Diam., Hood over Illuminated compartment has safety observation, window safety and interlock switch, outside push buttons controls.

Forster Coercimeter complete with Null meter, field control and Hc meter unit, test coil and electromagnetic Yoke. (4ea.)

Monsanto Tensometer, Model 500 with 2 load cells desk control panel and chamber for cooling or heating specimen.

Harrop Laboratories Thermal Tester complete with chart recorder and control panel, Model #TDA-H2-PP, S/N 04988

Yerzley Oscillograph , Model AYO-Z

Spex Shatterbox, Cat. #8510, S/N 1748

Spex-X Press, Cat. #3624, S/N 80052

NOTE: All equipment is sold "AS IS, "WHERE IS" with all faults and subject to prior sale., F.O.B. Houston, TX.

Contact Ralph V. Rodriguez, President Metallurgical Systems, Inc. 5302 Chandler St. Houston, TX 77007 Tel: 888-826-8868

Tel: 713-467-9922 FAX: 713-467-0578

Email: sales@metsystems.co
Website: www.metsystems.com

## Equipment for Sale November 1, 2007

#### For Sale:

Automated tumbling system - Rotofinish, Hammond J#5579, Kalamazoo, MI, 60A, 480V, 3 phase, 1200 lb product per hour

100 ton inclined sizing press. S/N 08149, 30 hp, 1780 rpm, Baldor drive motor with set 28 cycle/min pulley reduction, Allen-Bradley relay control system,

Batch steam treater - homo furnace cat# 9522-26-12 Leeds&Northrup, transformer 460V, 3 phase, to operating voltage of 220, 3 phase. Has Barber Colman 570 programmable temperature controller type K thermocouple, 1250°F max. operating temperature.

Alpha 750 ton hydraulic forming press Model 750D, January 1971, 460V 3 phase, 115 V control circuits, two 40 hp pumps with double shaft mounted pumps, Denison (Hagglund) axial piston variable volume pumps, 2 each. Vickers double vane pumps, 2 ea, 1800 rpm, 12 gpm pilot pressure, 75 gpm low pressure. Adjustable withdrawal force option, hydraulic part height option, 550 gallon hydraulic tank with external cooling system.

HAAS vertical machining center - Model Vf-1, 460V, 3 phase, Multi-program storage, 20 station tool changer, 7,5 hp spindle drive, 6000 rpm, travel access of axis: x=20 in, 7=16 in and z=2 inches.

Contact: Don Matlock Dynametal Technologies, Inc. 400 Dupree Ave, Brownsville, TN 38012

Tel: 713 779 1091, FAX: 731 772 3784

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#### Equipment for Sale October 1, 2007

#### For Sale:

Dorst Press Models:TPA-4's, TPA-5, TPA-12, TPA-30, TPA -45

Dorst America, Inc. offers the above presses, reconditioned or remanufactured by Dorst. A brand new TPA-6/2S is available for quick delivery. Dorst also offers upgrades and optional equipment are available and include: multi-platen die sets, (hydraulic or mechanical), release mechanism for upper punches, hydraulic or pneumatic core rod, PLC controls, tool carts, tonnage monitoring, and computerized controls with automatic fill height adjustment.

Contact: Greg Wallis, Jack Krajcirik, Bob Orsulak Dorst America, Inc. 64 South Commerce Way Bethlehem, PA 18017 Tel: 610-317-2000 FAX: 610-317-6416 E-mail: info@dorstamerica.com

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## Equipment for Sale, June 1, 2007

#### For sale:

One 20 Ton Daewha Mechanical Compacting Press - (New).

One Jiali 16 ton Mechanical Powder Compacting Press, (Demo)

Fluidized Fill Shoe and Die Wall Lubrication Systems are also available.

Contact: Sales Dept. Gasbarre Products, Inc. 590 Division St. P.O. Box 1022 DuBois, PA 15801 Tel: 814 371 3015

FAX: 814 371 6387 E.Mail: press-sales@gasbarre.com Internet: WWW.gasbarre.com

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Equipment for sale, April 1, 2007

Hitachi / Fanuc wire EDM unit H-cut 203m / sp150

Delta cooling tower Pioneer forced draft cooling tower 30 ton capacity Contact: Joe Herdzik Allied Sintering Danbury, CT

Tel: 203 743 7502, FAX 203 743 2538

For Sale:

300 ton Kux hydraulic P/M press, max. fill depth 10", 220/440 volt with 2 ea 30hp motors. Free standing power unit. Excellent condition. Pit required.

Contact: J. Kevin O'Meara

Structural Powder Equipment Corp.

Tel: 401 575 0541 http://www.specorp.us

Equipment for sale, March 1, 2007

For Sale:

C.I. Haves

LAC-M-030654 belt furnace, muffle, 2100 °F max operating temp, Hot zone: 6" w x 54" L x 3" H, Nitrogen / Hydrogen flow meters.

CM Pusher

1650  $^{\circ}$ C, 3.5" w x 3.25" h, fully automated, 32" pre heat, 48" high heat with 3 zones. Set up for Hydrogen / Nitrogen.

C.I. Hayes

VCT-0909 – Graphite vacuum furnace, 1500 °C, top load, 9" dia x 9" deep product space, Welch mechanical pump, Partial pressure control, Digital temp and over temp controllers.

GCA/ VI

12" x 12" x 36" Moly vacuum furnace, 2400  $^{\circ}$ F, high vacuum.

Contact:

Geoff Mowry
Mowry Enterprises
508-845-4768 Fax: 508-845-4769
email: ptechsales@mowryenterprises.com

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For sale:

One Raymond pallet truck, 4000#, with charger and extra batteries, \$600.

One vibratory separating deck \$ 350.

Miller Machine Shop, St. Marys, PA, 814 834 2114

For Sale:

One DynaPress, hydraulic, Ser # 2810, series B Max fill 3.5", 25 tons.

One Sintered Alloys Hydraulic Press, Custom built Racine Hydraulic system, max. fill 3", 120 tons, All functions operating correctly, ready for production.

Haller Hydraulic Press Model #100, Sr. # 10428. Max. fill 4", 100 tons. All functions operating correctly, ready for production.

CM Furnace, 1200°C. 4 zones, 7" belt, 4' hot zone, used less than 1 week.

Contact: Steve Meyer Tel: 203 723 4567

steve.meyer@htsminc.com

Equipment for Sale, January 1, 2007

For Sale:

Rotary Screw Compressor 125 SSR Ingersoll Rand '86 model Air Cooled Good Condition

Contact: Rich Ludick
Volunteer Sintered Products

Tel: 615 666 6000 E-mail volsin@nctc.com

Equipment for Sale, December 1, 2006

For sale: Vacuum carburizing, completely rebuilt C. I. Hayes VBQ-202436, new panel, new plumbing, new wiring, new paint. For specs and photos please call 716 773 1640 or E-mail Kevin@HeatTreatSteel.com

C.I. Hayes Continuous Vacuum Sintering Furnace with pressure quench. Installed and running today. Rated at 2400°F/1316°C. For specs and photos please call 716 773 1640 or E-mail Kevin@HeatTreatSteel.com

For sale:

Stokes 280G, compacting press, 100 tons, 20 tons ejection, 4" fill, Maximum compact diameter 4", 8-24 pieces per minute, 440V, 3 phase.

Stokes R4 compacting press, 20 tons, 7.5 tons ejection, fill 1.4", maximum compact diameter, 2", 440V, 3 phase

Baldwin L 50 Pm compacting press, 50 tons, 25 tons ejection, fill 4", maximum diameter compact 3.25", produce 8 -32 pieces per minute 440V, 3 phase

J.P. Devine Vacuum Impregnator in excellent condition. Complete set of drawings & directions, set of 5 wire baskets. Temperature controlled reservoir allows unit to be used with hot or cold oil. 220/440 Volts.

Bico Disc Pulverizer in excellent condition. Unit sits on 4ft high cart with protective atmosphere chamber to prevent oxidation of powders. 208/220/440 Volts, 3HP.

L&N Steam Treater in very good condition. 22"D x 26"Deep, Stainless Retort, Nichrome elements. Comes with basket & 5 trays, chart recorder panel w/timer. 50 lbs/hr of steam required. 49KW, 3 Phase, 240 Volts.

Harperizer in very good condition. 2 Cu ft capacity, 2 speed, auto timers.230 Volts, 5HP.

Tinius Olson Universal Impact Tester in excellent condition. Model 74 Impact, Size (Capacity) 264 FT. LBS.

Lauffer / Mannesmann 120 Metric Ton Hydraulic PM Press. Withdrawal Die Set, Programmable Shuttle Type Feed Shoe, Solid State Controls, Recently Rebuilt.

Contact information:

J. Kevin O'Meara Structural Powder Equipment Corp. 3 River Meadow Dr., P.O. Box 333 Hope Valley, RI. 02832 (C) 401 575-0541 Web Site – www.specorp.us E-Mail – info@specorp.us

### Equipment for Sale, October 1, 2006

Stokes Model R-4, 20 ton molding press, 5 hp Lincoln Electric motor, 240/480, 60 Hz 3 phase, Allen Bradley PLC, variable speed control, 0-1800 rpm, Twin Disc Model MTU clutch with air cylinder actuator. Press rebuilt in 1999.Modified fill shoe with hopper and table pivot pin.

Stokes model R4, Lot T3842 3, 20 ton molding press, 5 hp Leeson motor, 240/480 V. 60 Hz, 3 phase, 5 hp Reeves variable speed drive, 187 to 1870 rpm, twin disc model MTU clutch with air cylinder actuator, press rebuilt in 1999, Modified fill shoe with hopper and table pivot pin. Adjustable Pitman density crosshead.

Stokes Model 294, Ser # C17144, Lot# B76890, 60 ton molding press, 7.5 hp Reliance motor, 230/460 V, 60 Hz, 3 phase, 7.5 hp Reeves variable speed drive, 152 to 1520 rpm. Twin Disc Model MTU clutch with air actuator. Allen Bradley PLC control. Press was rebuilt in 2000. The material feed system has been given an SMP

designed system which uses a modified six inch Gasbarre shoe with an overhead hopper.

Denver jaw crusher (Denver Equipment Div. of Joy Mfg.) Model G 3054 Serial #82-10-249. Crusher is mounted on a 27 in. x 48 in. 10 in high base with12 in high mounting feet. Powder" 3 hp 220 V, 3 Phase, 60 Cycle, TEPC motor. Jaws are 10" wide with adjustment from closed to over 1" opening.

Contact: SMP Co. Inc. 25 Pleasant Ave.

Red Lion, PA 17356-2012

Tel: 717 246 0385, FAX: 717 246 0487

William G. Lightner, Jr.

#### Equipment for sale, February 1, 2006

For sale:

30 ton, 12 station rotary press

2ea, 200 ton Yoshizuka presses

2 ea 20 ton Yoshizuka presses

12 ton Dorst, TPA press

Contact: Howard W. Ficke H.W.F. Inc. 2020 North Bend Rd. Cincinnati, OH 45224

Tel: 513 542 2881 FAX: 513 542 2885

## Equipment for sale, January 1, 2006

1986 Autoclave Engineers Isostatic press, Model IP-8-36-60, Max. working pressure 60,000 psi, Working chamber size 8" diameter x 36" deep, Light Curtain, Under power and in excellent condition

Dorst TPA 20 Mechanical Compacting Press, Fully refurbished

1982 Dorst TPA 500 H. Hydraulic Servo Controlled Compacting Press

1981 Lauffer 630 ton hydraulic sizing press.

L&N Pit steam homo, 2" diam x 26" deep, steam generator and 3 baskets.

CM Continuous pusher furnace 1850°C, 12" W x 60" L x 8" high, four zones, 60" hot zone, hydrogen atmosphere, Late model

Harper continuous pusher furnace 1850°C, 6" W x 70" L x 6" H, four zones, 70" hot zone, hydrogen atmosphere, late model

Also: all types of new and used machine tools which are on the website.

Contact: Greg Poliquin Poliquin Machinery 32 19th St. Auburn, ME 04210

Tel: 207 784 1999, FAX: 207 795 6198

greg@poliquinmachinery.com http://www.poliquinmachinery.com

#### For Sale:

Buehler model 10-1030 heavy duty abrasive cut-off saw. 10 or 12 " abrasive wheels to cut 2" thick parts, , recirculating coolant system, extension trough to accommodate rods up to 24" long, clean, in good working order, and repainted. Photos available. 220 V, two hp motor. Complete with instruction manual and parts list. Spare parts available from Buehler Ltd. Price \$5,000. The current, comparable Buehler model is priced at over \$20,000.

Contact: Lanny Pease

Powder-Tech Associates

Tel: 978-685-6027, FAX: 978 683 5733

Other ways to list/search for equipment:

The site www.re-test.com allows you to post equipment for sale or to list what you need. It works on a commission basis.

#### CONTRACT SERVICES and SINTERING,

#### For Sale:

High Temperature Sintering Time

Phoenix Sintered Metals in Brockway, PA currently has high temperature sintering time available on an Abbott Furnace Company ceramic belt furnace. The furnace is capable of belt loading between 10 and 12 lb/sq. ft. for a production rate around 100 lb/hour at temperatures up to 2400°F. The atmosphere system allows for nitrogen/hydrogen blends including 100% hydrogen. The furnace also incorporates a Honeywell 9000e controller and PC supervisor station to adjust and record process parameters such as belt speed, temperature, and atmosphere flow. The system is ideal for product

development or small production runs. For more information:

Contact: Jeremy Gabler

**Phoenix Sintered Metals** 

921 Clark St.

Brockway, PA 15824

Tel: 8814-268-3455, FAX: 814-265-8565

#### Producer of P/M Compaction Tooling

Method Tool Inc. in St. Charles, MI specializes in producing tooling for the P/M Industry. We have over half a century's experience in precision machining and tool & dir fabrication. We also offer custom gage, machine component, and custom fixture fabrication. Production machining of P/M components is also available.

MTI Precision Machining 11980 Beaver Rd. St. Charles, MI 48655

Tel: 989 865 9880, FAX: 989 865 6342

Contact: Gordon Boivin E-mail: gordonmti@tpipm.com

Continuous Metal Technology, Inc. of Ridgway, PA has sintering time available on the following furnaces:

Delube/Debinding specific:

- \* Thermal MIM batch debinding in Air/Nitrogen atmosphere with high flow atmosphere circulation
- \* 15" continuous delube oven capable of 10% hydrogen, 50% bubble nitrogen (balance dry nitrogen) 2050°F max temperature

#### Belt and pusher furnaces:

20" belt 100% H2, bubbler, 2150°F max.

18" belt, 10% H2, bubbler, 2050°F max.

15" belt, 10% H2, bubbler, 2050°F max.

12" belt, 10% H2, bubbler, 2050°F max.

8" pusher, 100% H2, bubbler, 2600°F max.

8" pusher, 100% H2, no bubbler, 2600°F max.

Contact: Tim Smith

Tel: 814 772 9274, FAX 814 772 4345

## Sinter Hardening Available

Pennsylvania Powdered Metals in St, Marys, PA has sinter hardening available. We currently have time available on our 12" Abbott Furnace for testing and small production runs. This unit is capable of 2100°F as well as 100% hydrogen atmosphere.

Contact: George Heigel or Emily Anders

P.O. Box 966, Trout Run Rd. St. Marys, PA 15857

Tel: 814 834 9565, FAX: 814 834 9578

Magna-Tech P/M Labs in Cinnaminson, NJ offers help in design and engineering of P/M soft magnetic applications. This includes initial consultation, compaction and sintering of soft magnetic materials, provision of prototype materials and measurement of

soft magnetic properties. Contact Ken Moyer at 856 786 9061 or moyer @snip.net.

Bussman Press users: Pilot Solenoid replacement valves now available.

Contact: Mike Kuehler P/M Company 972 436 3502

Gasbarre Press Div. of Gasbarre Products, Inc. is providing press rebuilding services for mechanical and hydraulic compacting and sizing presses of all makes and tonnages. Gasbarre's new state-of-the-art manufacturing facilities combine modern manufacturing with efficiency. Contact Gasbarre's sales department for detailed information on presses you wish to have rebuilt.

Contact: Sales Dept.

Gasbarre Press Div. Gasbarre Products, Inc.

590 Division St. DuBois, PA 15801 Tel: 814 371 3015 FAX: 814 371 6387

E.Mail: press\_sales@gasbarre.com Internet: WWW.gasbarre.com

\_\_\_\_\_ Zonic Resonant Inspection System to find cracks in sintered parts, on the web at www.zonic.com. Doug

Kopp Sales Mgr.

Baldwin Press Components - We have the master cam patterns for the ejection and shoe arm cams for the Baldwin 45A press. These parts are perfect drop ins for your existing worn or damaged cams.

Flame hardened, finish ground on all contacting surfaces, these are exact replacements. Please allow 4-6 weeks for delivery.

Contact: George Wolf

Metal Ceramics, Inc. Franklin Park, IL 60131

Tel: 847 678-2293. FAX: 847 678 2368 \_\_\_\_\_

Anyone using Morton Presses or needing repair parts

please contact Mike Kuehler at 214-436-3502. We have a 10 ton Dynapress available.

Toll sintering available from Solar Atmospheres Inc., 1969 Clearview Rd., Souderton, PA, 215-721-1502 or 800-347-3236. High temperature (2300 to 2800°F) in vacuum furnaces with various gases (H2 N2, Argon) as backfill to 1 Torr = 1000 microns. Suitable for P/M, MIM, and some ceramics. Temperature controlled to 5°F window. Furnaces include 36" diam x 48" horizontal, 48" diameter x 72" horizontal, and 6" diameter x 16" deep top load. Loads up to 5,000 lb.

Sintering time is available at the demonstration facility for CM Furnaces in New Jersey. Twenty different furnaces for reducing atmosphere or neutral or air. There are six furnaces for reducing atmosphere, up to 1850°C (3362°F), typically 3 to 51/2" in diameter or section. One continuous furnace 6 x 6 x 48" to 1700°C (3092°.F) in reducing atmosphere. Also a furnace for catalytic debinding of BASF feedstock MIM parts.

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Contact: Don Whychell CM Furnaces Inc.

103 Dewey St.

Bloomfield, NJ 07003-4237

Tel: 973 338 6500 FAX: 973 338 1625

Precision Rebuilders, Inc. of Bentonville Arkansas offers rebuilding, reconditioning, and upgrading of Dorst presses and the sale of new Atlas presses from Germany. Booth 512 at the June 30 - July 2,1997

International Conference in Chicago

Contact: Bill Fergus Russ Brasuell Tel: 501-271-0032 FAX: 501-271-7180

Analytical Scanning Electron Microscopy Services including image analysis of particles, microstructures and fractography, with semi-quantitative elemental analysis using x-ray EDS.

Thermal Processing of metallic and nonmetallic (MMC's) products. Including sintering to 1600°C (2812°F) using hydrogen, nitrogen, and/or argon with microprocessor controls. For development, prototypes, and pilot production.

Contact: Richard R. Phillips or David Phillips **Engineered Pressed Materials** St. Marys, PA

Tel. or FAX: 814-834-3189

VARIOUS LABORATORY EQUIPMENT DEALERS

Tradeco Equipment Corp., P.O. Box 342, Trenton, MI 48183, Tel: 313-946-5570, FAX: 313-946-5572 has used P/M presses, mixers, and jaw crushers, sieves, spray dryers.

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Laboratory Testing Supply, P.O. Box 76005, Arlington, TX 76005, tel: 800-873-0035, FAX: 817-860-3175, has used lab equipment, sample splitters, balances, rotap sieve shaker.

L. Little Mercer Co., 240 Hornbine Rd., Rehoboth, MA 02769, Tel: 800-637-2371, has used drying, blending and pulverizing equipment.

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Spectron Corp. of Kirkland, WA, 206-827-9317 has used and reconditioned lab equipment including atomic absorption spectrometers and ICP spectrometers.

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Microscopes, particle size analyzers, and other laboratory equipment is available from:

Contact: Michael L. Capovani Capovani Brothers, Inc. Corporations Park, Bldg. 704 Scotia, NY 12302

Tel: 518-346-8347, FAX 518-381-9578

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Frank Bacon Machinery Sales in Warren, MI deals in rebuilt test equipment, e.g. tensile, compression, Rockwell hardness, Magnaflux, and metallography equipment. Tel: 313-756-4280

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Used balances, microscopes and other equipment. Contact: National Equipment Sales and Leasing

> 83 Eastman Street Easton, MA 02334 Tel: 1-800-545-0540 FAX: 508-238-8250

Sundance Supply Co. PO. Box 137, Sunol, CA 94586, Tel. 415-490-3030, FAX 510-862-9015 sells used lab equipment and things like microscopes, microhardness testers, etc. You can contact them for a 3 page listing.

Used lab equipment is available from Accutek Inc., 5105 Williams Lake Rd., Waterford, MI 48329, 313-674-0990. Tensile, hardness, metallurgical etc.

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M-R Equipment Corp., 27900 Chagrin Boulevard, #200A, Cleveland, OH 44122, Tel: 216-292-3400, specializes in selling used belt furnaces and other equipment suitable for sintering.

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Mark V Laboratory, Inc. of East Granby, CT, sells new and used laboratory equipment such as

microscopes and micro-hardness testers. They may be contacted at P.O. Box 310, East Granby, CT 06026, Tel. 800-243-9776 or FAX 203-653-4087

or Tel: 203-653-7201

American Instrument Exchange, 1023 Western Ave., Haverhill, MA, 01832, Tel: 978-521-2221, FAX: 978-521-8822 buys and sells used lab instruments. Some of these are useful for P/M labs, and they are worth a call for their list, when you need something. www.labx.com/aie.cfm

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Alpha Resources, Stevensville, MI, 800-833-3083, that they take many Leco instruments in trade and have used carbon analyzers, etc. for sale. They repair and check out such items prior to resale.

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Johnson Machinery Co., Wallington, NJ, tel: 201-473-3800 has many used presses, including some for pressing P/M parts.

ILEC, Excelsior MN 55331 buys and sell lab equipment,

Tel: 800 419 FAX: 702-384-8731

Cambridge Scientific in Cambridge, MA sells used scientific equipment including: ovens and furnaces, laboratory hoods, spectrometers, microscopes, machine shop equipment like lathes and milling machines, balances and lab furniture. Call 617-354-8900 or FAX 617-354-3018 for their current list.

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CusaCo Inc., 21 Main St. Asbury Park, NJ 07712, Tel: 723-502-0246 sells used metallographic preparation equipment, and other lab equipment. Catalog available.

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The Surplus Record has a very extensive list of dealer owned presses and other equipment. They can be contacted at 20 N. Wacker Dr., Chicago, IL 60606 Tel. 312-372-9077. They supposedly charge \$30./yr, but they have mailed it free to us for over 23 years

Wanted, October 1, 2008

Detroit Process Equipment, Inc. buys used machinery for the PM, carbide, ferrite, carbon and related industries. We are interested in buying the following: Powder molding presses, powder presses, isostatic presses, piston extruders, mixers and blender, crushers, Pulverizers, size reduction mills, jar mills, attritors, ball mills and screeners

Contact: Tom Suhy

**Detroit Process Machinery** 

Tel: 586 469 0323

e-mail: sales@detroitprocessmachinery.com Website: www.detroitprocessmachinery.com

Wanted, October 1, 2008

Any processing equipment used in the production of P/M, Ceramics, Ferrites, Carbides or related industries. We buy one piece or an entire plant. - CASH! Immediate response for Powder Compacting Presses, ISO presses, Mixers, Blenders, Pulverizers, Granulators, Ball Mills, Screeners, etc.

Contact: Tim Crosson or Ryan Crosson

Aadvanced Machinery Inc. 35044 Automation Dr. Clinton Township, MI 48035

Tel: 586-790-1717 Fax: 586-790-1871 http://www.aadvancedmach.com Service@aadvancedmach.com

Wanted April 1, 2008

Wanted: 50 or 100 ton Dorst press and 60 or 100 ton Gasbarre press. Contact by E-mail, bgonzales@capstan.cc

Wanted July 1, 2007

Need a double cone or V-blender of 50 cu. ft volume for mixing 10,000 lb of metal powder. Must be equipped with "Attrition Bar" inside the blender.

Krishna Patel ACuPowder International LLC 901 Lehigh Ave. Union, NJ 07083 Tel: 908 851 4500 ext. 568

FAX 908 851 4597

E-mail: Patel@Acupowder.com

Wanted April 1, 2007

30" diameter Sweco Turbo Screen. Must be in good condition. Please forward details to:

Krishna Patel ACuPowder International LLC 901 Lehigh Ave. Union, NJ 07083 Tel: 908 851 4500 ext. 568 FAX 908 851 4597

E-mail: Patel@Acupowder.com

Used Equipment Wanted, 12/1/00

**Used Presses Wanted:** 

DORST PRESSES, any size, any condition Contact: Greg Wallis, Jack Krajcirik Bob Orsulak Dorst America, Inc.

64 South Commerce Way Bethlehem, PA 18017

Tel: 610-317-2000, FAX: 610-317-6416

E-Mail: dorstamerica@fast.net