

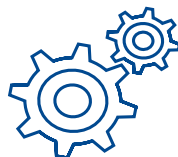
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*The Premier Source For Pharmaceutical
Process and Packaging Equipment*



2014 Chemical Issue

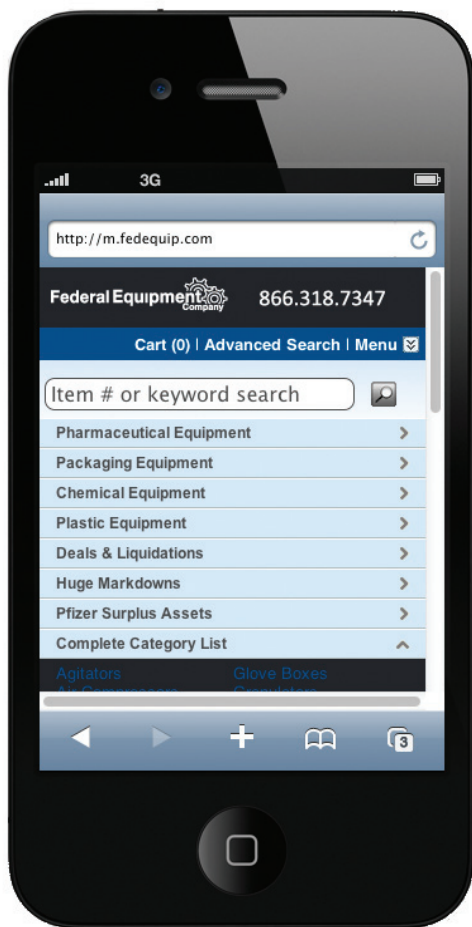
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Federal Equipment Buys and Sells Used Equipment

Federal Equipment Company recognizes that to compete and win in today's business environment our clients must use current technology to its greatest advantage. Furthermore, communications must be timely, concise, and fast. One of these tools is smart phones that enable fast, consistent, and constant communication. Federal Equipment's website is optimized for these mobile devices. Users can view our entire inventory online and see what Federal Equipment has available at a moments notice.

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Our current inventory of equipment includes surplus assets from Pfizer's pharmaceutical plants, research and development facilities, and pilot plants, as well as kilo-plants, chemical plants, and API and pharmaceutical manufacturing plants.

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FEATURED LIQUIDATIONS

- Montreal, Canada** [VIEW ALL EQUIPMENT](#)
- Pfizer Miscellaneous Surplus** [VIEW ALL EQUIPMENT](#)
- Juncos, PR** [VIEW ALL EQUIPMENT](#)
- Albany, GA** [VIEW ALL EQUIPMENT](#)
- Kalamazoo, MI** [VIEW ALL EQUIPMENT](#)
- North Andover, MA**

FEATURED EQUIPMENT

- TF 156 VECTOR ROLLER COMPACTOR, S/S**
35356 - One (1) Used Vector roller compactor, model TF-156, stainless steel construction, 150 mm roll diameter x 60 mm faced rolls, approx. 2800 PSI max roll pressure, capacity approx. 15-45 Kg/hr, 15 ton max roll force, 5M Cycles 17.2 RPM drive, 3 HP 230/460 volt roll drive motor, 1 hp, 230/460 volt feed screw drive motor, granulator driven by 5 hp, 230/460 volt drive motor with hydraulic lift for top, rolls and feed screw are variable speed with controllers, mounted on unitized frame, serial# RC148-44488. NOTE PRICE INCLUDES A 15% BUYERS PREMIUM. [GET QUOTE NOW](#)
- GPCO 60 QUATT FLUID BED DRYER, SPRAY GRANULATION**
34859 - One (1) used GPCO 60/100 fluid bed dryer, stainless steel construction, spray granulation chamber with 2 bowls, top vented, 2 bar shock rating, EX-RLE 3.2 explosion proof rating, 25 kw blowers, 180220 Kcal/hour heater, 480 volt, control panel, serial# 4959, serial# 1989. [GET QUOTE NOW](#)
- 50 MM LEISTRITZ ZSE 50 PHARMA TWIN SCREW EXTRUDER, 32-1 L/D**
34882 - One (1) used Leistritz twin screw wet granulation suite consisting of: One (1) Leistritz ZSE 50 PHARMA twin screw extruder, model ZSE50 GL/320, 32-1 L/D, jacketed barrel with 1 feed section, 1 side feeder section with model LSB 56 twin screw side feeder driven by 3 kw motor on stand, 6 barrel sections, 8 barrel zones, 500 rpm screw speed, 64 kW AC motor with VFD controller, control panel, serial# 2888, new 2000. One (1) 10 ton AEC chiller, Nine (9) AEC temperature control units, One (1) Triple S Dynamic Slipstick conveyor, model HDC-6C1.7, serial# HDC-2001-70. One (1) Radio Frequency Company MICROWAVE CPS RF dryer, model 7750-S, 75 KW high frequency generator, Allen Bradley PLC 5000 controls, AEC side hall, 460 volt, serial#

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Throughout, Text In Bold And Blue Pertains To Machines That Have Images

Reactors

Alloy

- 32151 1500 Gal Reactor Body, Hastelloy C22
- 38605 1500 Gal Lee Reactor, Hastelloy C22**
- 41709 750 Gal Alloy Industries Reactor, Hastelloy C22, 600/150#**
- 30579 400 Gal Baeuerle and Morris Reactor, Monel 400, 50/50#
- 16069 50 Gal Pfaudler Reactor, Incoloy 825, 150/90#
- 29413 30 Gallon Pfaudler Reactor Hastelloy C276 150/120#
- 44467 4500 Liter Carl Canzler Reactor, Hastelloy B2
- 37540 2500 Liter Mueller Reactor, Hastelloy C276, 50/100#**

Glass-Lined

- 28902 3000 Gal Pfaudler Glass-Lined Reactor, 100/90#
- 26677 2000 Gal Dedietrich Glass-Lined Reactor, 100/450#
- 30521 2000 Gal Dedietrich Glass-Lined Reactor, 100/90#**
- 27407 2000 Gal Pfaudler Glass-Lined Reactor, 100/90#
- 21218 2000 Gal Pfaudler Glass-Lined Reactor, 100/90#**
- 26677 2000 Gal Dedietrich Glass-Lined Reactor, 100/450#
- 39994 1500 Gal Pfaudler Glass-Lined Reactor, 100/90#**
- 29072 1000 Gal Dedietrich Glass-Lined Reactor, 100/90#
- 42803 1000 Gal Dedietrich Glass-Lined Reactor, 100/90#
- 28858 750 Gal Pfaulder Glass-Lined Reactor, 100/90#**
- 23561 750 Gal Pfaudler Glass-Lined Reactor, 100/90#
- 39301 700 Gal Tycon Glass-Lined Reactor, 150/100#**
- 30927 500 Gal Pfaudler Glass-Lined Reactor, Anchor Agitator, 25/90#
- 30516 500 Gal Dedietrich Glass-Lined Reactor, 100/100#
- 23604 300 Gal Pfaudler Glass-Lined Reactor Body, 100/85#**
- 39763 300 Gal Pfaudler Glass-Lined Reactor, 25/95#
- 42810 300 Gal Pfaudler Glass-Lined Reactor, 100/100#
- 43537 200 Gal Pfaudler Glass-Lined Reactor, 100/79#
- 40917 200 Gal Pfaudler Reactor Body, 100/80#
- 43536 150 Gal Pfaudler Glass-Lined Reactor, 100/100#



Item: 38605



Item: 41709



Item: 37540



Item: 21218



Item: 39994



Item: 28858



Item: 30521



Item: 39301



Item: 23604

Reactors (cont)

40440	75 Gal Pfaudler Glass-Lined Reactor, 100/95#
24862	50 Gal Pfaudler Glass-Lined Reactor, 150/105#
30928	50 Gal Pfaudler Glass-Lined Reactor, 100/90#
39759	50 Gal Pfaudler Glass-Lined Reactor, 25/105#
39341	50 Gal Tycon Glass-Lined Reactor, 150/110#
39273	30 Gal Pfaudler Glass-Lined Reactor, 30/100#
39321	30 Gal Tycon Glass-Lined Reactor, 150/100#
39754	30 Gal Pfaudler Glass-Lined Reactor, 27/115#
28899	20 Gal Pfaudler Glass-Lined Reactor
29415	10 Gal Pfaudler Glass-Lined Reactor 150/120#
41190	10 Gal Kilo Lab System, Glass, Hastelloy, 150/125#
44471	18000 Liter Pfaudler Glass-Lined Reactor, 87/87#
44475	18000 Liter Pfaudler Glass-Lined Reactor, 100/89#
44470	16000 Liter Tycon Glass-Lined Reactor, 87/87#
44482	14340 Liter Dedietrich Glass-Lined Reactor, 87/435#
44468	10000 Liter Tycon Glass-Lined Reactor, 87/87#
44474	9327 Liter Dedietrich Glass-Lined Reactor, 87/145#
44498	2310 Liter Dedietrich Glass-Lined Reactor, 87/87#
40523	680 Liter Pfaudler Glass-Lined Reactor, 6/6 Bar
40513	400 Liter Pfaudler Glass-Lined Reactor, 6/6 Bar

Glass Reactor Trains

34407	100 Liter R & M Italia Reactor Train, Glass
34410	100 Liter R & M Italia Reactor Train, Glass
33522	100 Liter Buchi Reactor Train, Glass and Hastelloy
34408	70 Liter R & M Italia Reactor Train, Glass
34412	70 Liter R & M Italia Reactor Train, Glass
23599	55 Liter Buchi Glass Reactor



Item: 40440



Item: 30928



Item: 39759



Item: 39341



Item: 39754



Item: 29415



Item: 40513



Item: 34407



Item: 33522

Reactors (cont)

- 35922** **25 Liter Dedietrich QVF Glass Reactor Train**
- 28348** **25 Liter QVF Glass Mini-Plant Reactor System**
- 35162** **Wunderlich-Malec Bio Reactor, Model Ambis-1**

Stainless Steel

- 42988 5500 Gal Five Star Reactor Body, 316 S/S, 75/75#
- 43267 4000 Gal Patterson Reactor, 316 S/S, 150/100#
- 41998 2000 Gal Mueller Reactor, 316L S/S, 100/150#
- 42066** **2000 Gal Precision Reactor, 316L S/S, 100/150#**
- 22914 1500 Gal Buffalo Tank Reactor, S/S, 100#, Coil
- 27907** **650 Gal Vessel Craft Reactor, 316 S/S, 50/50#**
- 16195 500 Gal Mueller Reactor Sanitary S/S, 316L S/S
- 37575 250 Gal Precision Stainless Reactor, 316L S/S, 40/75#
- 38446 250 Liter Precision Reactor, 316L S/S, 15/100#
- 38625 250 Gal DCI Receiver, S/S, 45#
- 28003** **200 Gal Mueller Reactor, S/S, 50/100#**
- 37581 175 Gal Northland Stainless Reactor, S/S, 30/30#
- 37582** **145 Gal Precision Stainless Reactor, 316L S/S, 40/60#, FV**
- 39268** **100 Gal Robert Mitchell Reactor, 316L S/S, 100/150#**
- 26783 100 Gal Pure-Flo Reactor, 316 S/S, 20/150#
- 28780** **100 Gal B & G Reactor, 316 S/S, 50/80#**
- 35715** **100 Gal DCI Reactor, 316L S/S, 65/65#**
- 20990 50 Gal Otenberg Autoclave, 316 S/S, 3000#
- 38624 45 Gal Walker Reactor, S/S, 45/75# Unused
- 38655** **20 Gal Walker Reactor, S/S, 50/15#**
- 38575 10 Gal Chemineer Reactor, S/S, 150/150#
- 35738 1 Gal Chemineer Reactor, S/S, 600/150#



Item: 35922



Item: 28348



Item: 35162



Item: 42066



Item: 27907



Item: 28003



Item: 37582



Item: 39268



Item: 28780



Item: 35715



Item: 38655

Reactors (cont)

44464	16000 Liter Golden Vale Reactor, 316 S/S
44473	9470 Liter Golden Vale Reactor, 316 S/S, 75/131#
31251	3200 Liter Echo Engineering Reactor, S/S, 3/6.9 Bar
40463	2250 Liter Precision Reactor, 316L S/S, 45/90#
40464	2250 Liter Precision Reactor, 316L S/S, 45/90#
28953	2000 Liter Feldmeier Reactor, 316 S/S, 50/100#, New
33045	2000 Liter Precision Reactor, 316L S/S, 51.5/160#
38498	1750 Liter Cherry-Burrell Reactor, 316 S/S, 15/100#
35716	1600 Liter DCI Reactor, 316L S/S, 45/45#
37796	1500 Liter Precision Stainless Fermentor System, S/S, 50/100#
37797	1500 Liter Precision Stainless Reactor, 316L S/S, 45/100#
38350	1500 Liter Precision Stainless Fermentor System, S/S, 50/75#
37797	1500 Liter Precision Stainless Reactor, 316L S/S, 45/100#
34997	750 Liter (198 Gal) DCI Reactor, 316L S/S, 45/150#
40455	750 Liter Precision Reactor, 316L S/S, 45/100#
37495	650 Liter (171 Gal) DCI Reactor, S/S, 65/75#
36591	600 Liter DCI Reactor, 316L S/S, 50/125#
37417	600 Liter (156 Gal) Precision Reactor, 316L S/S, 30/100#
36581	500 Liter DCI Reactor, 316L S/S, 30/115#
36582	500 Liter DCI Reactor, 316L S/S, 30/100#
38553	500 Liter DCI Reactor, S/S, 65/75#
40110	500 Liter DCI Reactor, S/S, 42/125#
40459	500 Liter Precision Reactor, 316L S/S, 45/100#
40461	330 Liter Precision Reactor, 316L S/S, 45/100#
40462	250 Liter Precision Reactor, 316L S/S, 45/100#
35710	250 Liter Pure-Flo Precision Reactor, 316 S/S, 60/150#
37467	200 Liter Sartorius Fermentor
37468	250 Liter Sartorius Fermentor



Reactors (cont)

28255	200 Liter Feldmeier Reactor, S/S, 45/90#
31974	200 Liter Martin-Petersen Reactor, Full Vacuum, S/S, 45/55#
37776	200 Liter Precision Reactor, 316L S/S, 45/150#
38469	200 Liter MPC Reactor, 316 S/S, 50/150#
40458	175 Liter Precision Reactor, 316L S/S, 45/100#
38349	150 Liter Precision Stainless Fermentor System, S/S, 50/75#
23422	150 Liter Mueller Reactor Body, 316L S/S, 35/60#
44594	150 Liter Braun Satorius Fermentor System, 316 S/S
42082	100 Liter Precision Reactor, 316L S/S, 50/100#
34832	27 Liter MBR AG Bio-Reactor, Glass and S/S
33803	10 Liter New Brunswick Bioflo 3000 Fermentor, 316 S/S
33807	10 Liter New Brunswick Bioflo 3000 Fermentor, 316 S/S

Centrifuges

Basket

18159	60" X 20" Western States Basket Centrifuge, S/S
36039	60" X 20" Sharples Basket Centrifuge, 316 S/S
36036	49" X 32" Krauss Maffei Basket Centrifuge, 316 S/S
28845	48" X 30" ATM Basket Centrifuge, Hastelloy C276
17367	48" X 30" Western States Centrifuge, Hastelloy C
15954	48" X 30" Delaval Mark III Centrifuge
27597	48" X 30" Tolhurst Basket Centrifuge, S/S
16207	48" X 30" Ametek Tolhurst Batch-O-Matic Centrifuge
19746	48" X 30" Delaval Basket Centrifuge, 316 S/S
19750	48" X 30" DeLaval Basket Centrifuge, 316 S/S
15592	48" X 30" Sharples, Model T-1600, 316 S/S
21499	48" X 30" Ametek Basket Centrifuge, 316 S/S
19213	48" X 30" DeLaval/ATM/Sanborn Basket Centrifuge, 316 S/S
25368	48" X 30" Ketema Mark III Basket Centrifuge, 316 S/S
16487	48" X 24" Tolhurst Basket Centrifuge, S/S
17369	48" X 24" AT&M/DeLaval Basket Centrifuge, Hastelloy C



Item: 31974



Item: 38469



Item: 44594



Item: 42082



Item: 36039



Item: 36036



Item: 27597



Item: 25368

Centrifuges (cont)

38601 48" X 24" Robatel Rousselet Basket Centrifuge, 316 S/S, Unused

17576 48" X 20" AT & M/DeLaval Basket Centrifuge, S/S

17364 48" X 20" AT & M/DeLaval Basket Centrifuge, S/S

28847 40" X 30" ATM Basket Centrifuge, Hastelloy C276

28861 40" X 24" Tolhurst Semi-Auto Basket Centrifuge, Hastelloy C276

20200 32" X 20" Sanborn Basket Centrifuge, Hastelloy C276

24980 30" X 18" Ametek Basket Centrifuge, Hastelloy C276

25047 30" X 18" Tolhurst Basket Centrifuge, Hastelloy C276

39318 19" X 12.5" Rousselet Robatel Basket Centrifuge, Hastelloy C276

Continuous

37534 DS-706 Sharples Decanter Centrifuge, 317 S/S

37535 DS-706 Sharples Decanter Centrifuge, 317 S/S

37539 DS-706 Sharples Decanter Centrifuge, 317 S/S

34512 PM-76000 Sharples Decantor Centrifuge, 317 S/S

34513 DS-706 Sharples Decanter Centrifuge, 317 S/S

25548 NX436 Alfa Laval Centrifuge, S/S

25549 NX436 Alfa Laval Centrifuge, S/S

15508 P4400 Sharples Centrifuge, Vertical, 316/317 S/S

17498 30" X 96" Bird Centrifuge, S/S, 150 HP, 2450 RPM (2)

17230 18" X 42" Flotwig Horizontal Solid Bowl Centrifuge

36272 16L Dorr Oliver Merco Decanter Centrifuge, 316 S/S

36273 16L Dorr Oliver Merco Decanter Centrifuge, 316 S/S

38459 16L Dorr Oliver Decanter Centrifuge, 316 S/S

Disc

34729 Alfa Laval Separator, Model CRPX-714, S/S

34732 Alfa Laval Centrifuge, Model VPX207-AGP-74

20650 Westfalia Centrifuge, Model SA40-06-177, 316 S/S, De-Sludger

20651 Westfalia Model SAMR 15037, De-Sludger Clarifier



Item: 38601



Item: 24980



Item: 25047



Item: 37534



Item: 39318



Item: 36273



Item: 34512



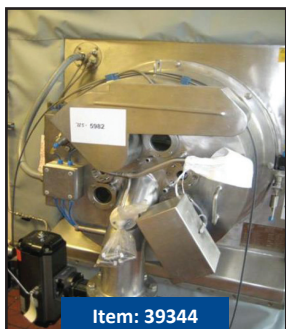
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Centrifuges (cont)

- 11862 Veronesi 3-Way Separator, Model BSGAB-440, Automatic
- 34731 Alfa Laval Centrifuge, Model CRPX-213, S/S, 25 HP**
- 33002 Alfa Laval Desludger Disc Centrifuge, Model VNPX-510, S/S
- 16995 Westfalia Centrifuge, Model CSA19-06-47, 316 S/S, Biotech Design
- 36492 Westfalia Centrifuge, Model SA40-06-076, 316 S/S, De-Sludger

Miscellaneous

- 37447 AS26 Sharples Centrifuge, S/S**
- 37942 500 mm X 250 mm Rousselet Robatel Peeler Centrifuge, Hastelloy C22**
- 39344 630 mm COMI Condor Peeler Centrifuge, Hastelloy HC22, 25 HP**
- 42811 Heinkel Inverting Filter Centrifuge, Hastelloy C4
- 19416 HF300 Heinkel Inverting Filter Centrifuge, 316 S/S
- 16409 S-18 Baker-Perkins Pusher Centrifuge, S/S
- 17395 HZ100/1.6 Krause Maffei Peeler Centrifuge
- 30392 SP725 Sharples Super Helix Centrifuge, 316/317 S/S, 10 HP**
- 26985 AS-26SP Sharples Super Centrifuge, 316 S/S
- 16995 CSA19-06-47 Westfalia Centrifuge, 316 S/S, Biotech Design
- 20650 SA-60-06-177 Westfalia De-Sludger/Clarifier Centrifuge
- 20651 SAMR 15037 Westfalia De-Sludger Clarifier**
- 22294 AS-16 Sharples Super Centrifuge, All S/S, 5 HP**
- 24753 B30 Merco Centrifuge, S/S
- 25402 P-12 Carr Powerfuge, 316/Titanium
- 26974 P-12 Carr Powerfuge, 316L/TI-6AL-4V, XP**
- 27135 HF 300.1 Heinkle Inverting Filter Centrifuge, Hastelloy C**
- 27882 P6 Carr Powerfuge, 316L/TI-6AL-4V Bowl
- 28919 HC-18 Carr Solid Bowl Centrifuge, 316 S/S, Titanium
- 33002 VNPX-510 Alfa Laval De-Sludger Disc Centrifuge, S/S
- 33811 HF300.1 Heinkel Inverting Filter Centrifuge, 316 S/S
- 34098 SAOWH 3036 SEF Westfalia Separator Centrifuge, 316 S/S
- 34731 CRPX-213 Alfa Laval Centrifuge, S/S, 25 HP
- 40481 MVF16 Sharples Centrifuge, S/S**
- 36333 Westfalia Separator Centrifuge, Model KA2-86-575, S/S



Centrifuges (cont)

- 34344 Krauss Maffei Peeler Centrifuge, Model HZ630 PH, Hastelloy C22**
- 34729 CRPX-714 HGV Alfa Laval Separator, S/S**
- 35007 AS-26VB Sharples Super Centrifuge, S/S**
- 36492 Westfalia Centrifuge, Model SA40-06-076, 316 S/S, De-Sludger
- 40517 HPZ800/400 Ferrum Peeler Centrifuge, 316L S/S**
- 40532 HT GMP COMI Condor Inverting Filter Centrifuge, Hastelloy C22**
- 40533 HPZ800/400 Ferrum Peeler Centrifuge, 316L S/S**

Dryers

Conoform

- 40091 150 Cu Ft Gemco Double-Cone Vacuum Dryer, S/S**
- 40092 150 Cu Ft Gemco Double-Cone Vacuum Dryer, S/S
- 15198 132 Cu Ft Patterson Double-Cone Vacuum Dryer, S/S, (3)
- 26521 100 Cu Ft Patterson-Kelley Twin-Shell Solids Processor**
- 33555 75 Cu Ft Patterson-Kelley Twin-Shell Vacuum Dryer, 304 S/S**
- 40556 88 Cu Ft Dedietrich Glass-Lined Double-Cone Vacuum Dryer**
- 28453 70 Cu Ft Dedietrich Glass-Lined Vacuum Dryer System**
- 16164 60 Cu Ft Patterson-Kelley Twin-Shell Vacuum Dryer, S/S
- 21096 40 Cu Ft Patterson-Kelley Twin-Shell Solids Processor, 304 S/S
- 40983 20 Cu Ft Patterson-Kelley Twin-Shell Processor, S/S
- 16275 20 Cu Ft Gemco Twin-Shell Formulator, S/S
- 28867 20 Cu Ft Schwelm Glass-Lined Double-Cone Vacuum Dryer
- 32745 20 Cu Ft Patterson-Kelley Twin-Shell Dryer, 316 S/S**
- 32746 20 Cu Ft Gemco Twin-Shell Formulator, 316L S/S**
- 19878 10 Cu Ft Patterson-Kelley Double-Cone Vacuum Dryer, 304 S/S**
- 40540 9.8 Cu Ft Dedietrich Glass-Lined Double-Cone Vacuum Dryer

Spray Dryers

- 36539 13' 2" APV Crepaco Spray Dryer, S/S, Atomizer
- 29329 9'6" APV Anhydro Spray Dryer System, S/S
- 27045 8'9" Niro Spray Drying System, S/S**



Item: 34344



Item: 34729



Item: 35007



Item: 40517



Item: 40532



Item: 40533



Item: 40091



Item: 26521



Item: 33555



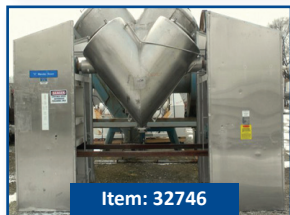
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Item: 28453



Item: 32745



Item: 32746



Item: 19878



Item: 27045

Dryers (cont)

- 33491 Model GB22 Yamato Lab Spray Dryer
- 23953 8' Bowen Spray Dryer System S/S
- 24285 8' APV Anhydro Spray Dryer System S/S
- 33907 30" GEA Niro Mobile Minor Spray Dryer, S/S**

Tray/Shelf Dryers

- 23477 134 Sq Ft United McGill Vacuum Shelf Dryer System, 304 S/S**
- 24729 133.3 Sq Ft Alloy Fab Vacuum Shelf Dryer, S/S
- 24730 133.3 Sq Ft Alloy Fab Vacuum Shelf Dryer, S/S
- 28868 214 Sq Ft Vacudyne Vacuum Shelf Dryer, C/S
- 39296 122 Sq Ft Stokes Vacuum Shelf Dryer, S/S
- 30597 73.3 Sq Ft Hull Vacuum Shelf Dryer, S/S
- 38437 48 Sq Ft Stokes Vacuum Shelf Dryer, 304 S/S**
- 29049 36 Sq Ft Stokes Vacuum Shelf Dryer
- 39766 12 Sq Ft Stokes Vacuum Shelf Dryer, S/S**
- 34390 3 Sq Meter Steri-Tech Bucher Vacuum Shelf Dryer, 316 S/S/Halar
- 40231 .47 Sq Meter Pink Vacuum Shelf Dryer, 316L S/S**

Nauta

- 40531 12.35 Cu Ft Hosokawa Nauta Dryer, 316L S/S**
- 40534 7 Cu Ft Hosokawa Nauta Dryer, 316L S/S
- 36037 6 Cu Meter Krauss Maffei Mixer Dryer, 316 S/S
- 29849 3.5 Cu Ft Littleford Nauta Dryer, S/S, 125#
- 40518 3.5 Cu Ft Hosokawa Nauta Dryer, 316 S/S
- 40541 3 Cu Ft Hosokawa Nauta Dryer, 316L S/S**

Fluid Bed

- 26578 GPCG5 Glatt Fluid Bed Dryer System**
- 25980 GPCG300 Glatt Fluid Bed Dryer/Granulator
- 24795 GPCG5 Glatt Fluid Bed Dryer System
- 29550 Fluid-Air Fluid Bed Dryer, Model 150, S/S
- 14335 WSG300 Glatt Granulating Fluid Bed Dryer, S/S
- 25422 GPCG5 Glatt Fluid Bed Dryer System
- 26673 GPCG30 Glatt Wurster Coater Insert**



Item: 33907



Item: 23477



Item: 38437



Item: 39766



Item: 40231



Item: 40531



Item: 40541



Item: 26578



Item: 26673

Dryers (cont)

29491 **GPCG120 Glatt Wurster Insert**

26674 GPCG30 Glatt Roto Granulation Insert

26675 GPCG30 Glatt Spray Granulation Insert

Fluid Bed Batch

37803 VFC-15M Vector Fluid Bed Dryer, S/S, Unused

42867 GPCG2 Glatt Fluid Bed Dryer, S/S

30078 **WST/G500 Glatt Fluid Bed Dryer**

25979 GPCG300 Glatt Fluid Bed Dryer/Granulator

41708 **MP 3/2/3 Niro Fluid Bed Dryer Granulator, S/S, 10 Bar**

41311 Model 0500 Fluid Air Fluid Bed Dryer Granulator, S/S

42183 **10BR20P Fluid Air Magnaflo Fluid Bed Dryer, 316 S/S**

28311 GPCG 15/30 Glatt Fluid Bed Dryer/Granulator

41706 **MP1 Niro Fluid Bed Dryer Granulator, S/S, 10 Bar**

36763 GPCG 30 Glatt Fluid Bed Dryer/Granulator

40072 MP1 Niro Aeromatic Fluid Bed Dryer, S/S

43558 WST60 Glatt Fluid Bed Dryer, S/S

42850 GPCG2 Glatt Fluid Bed Dryer, S/S

29552 Fluid-Air Multi Story Processor System

35931 GPCG1 Glatt Fluid Bed Dryer, S/S

26401 GPCG5 Glatt Fluid Bed Dryer System

34170 **STREA1 Aeromatic Fluid Bed Dryer, Plastic, Containment**

37914 **RI620 Glatt Roto Granulator Insert**

42167 Mini-Air-Pro, Pro-C-Ept Fluid Bed Dryer/Granulator

28652 GPCG5UD Glatt Fluid Bed Dryer/Granulator

39258 FLM1 Vector Fluid Bed Dryer Granulator, S/S

42970 STREA1 Aeromatic Fluid Bed Dryer, S/S

37916 **18" Glatt Wurster Insert**

42228 **12" Glatt Wurster Insert**

42229 9" Glatt Wurster Insert

41521 4' W X 12' L Witte Fluid Bed Dryer, S/S



Item: 29491



Item: 30078



Item: 41708



Item: 42183



Item: 41706



Item: 34170



Item: 37914



Item: 37916



Item: 42228

Dryers (cont)

Fluid Bed Continuous

- 40232 Strong Scott Continuous Fluid Bed Dryer, S/S
- 41747 12" X 120" Carrier Fluid Bed Dryer, S/S, Model OAC-1260-S
- 20166 4" X 36" Carman Vibrating Fluid Bed Dryer, S/S
- 21171 40" Kason Circular Fluid Bed Dryer, C/S
- 26104 18" X 42" Carrier Fluid Bed Dryer System, S/S
- 33583 24" X 96" Carrier Fluid Cooler, Model FCAD-C-2460-S**
- 27608 150 Cu Ft Bush Tank Fab Rotary Vacuum Dryer, 304 S/S
- 16451 141 Cu Ft Buss Rotary Vacuum Dryer, 304 S/S
- 18281 100 Cu Ft Buss Rotary Vacuum Dryer, S/S**

Vacuum

- 23459 3V Cogeim Steridrye Rotary Vacuum Dryer, Hastelloy C22
- 18046 125 Cu Ft Stokes Rotary Vacuum Dryer, 304L S/S
- 28978 2200 Liter Rosenmund Pan Dryer, Hastelloy C22**
- 28507 1600 Liter Guedu Pan Dryer, Hastelloy C22
- 28567 2500 Liter Comber Pan Dryer, Hastelloy C
- 44472 1400 Liter Guedu Vacuum Pan Dryer, Hastelloy C22

Flash/Freeze

- 44574 GEA Barr Rosin Flash Dryer System
- 26698 24 Sq Ft Stokes Freeze Dryer/Lyophilizer**
- 42595 4.6 Sq Ft FTS Lyostar 3-Freezer Dryer, S/S
- 33774 9 Sq Ft BOC Edward Freezer Dryer, Model Lyoflex-08**
- 15792 24 Sq Ft Stokes Freeze Dryer/Lyophilizer, Model 24PV

Nauta

- 36037 6 Cu Meter Krauss Maffei Mixer Dryer, 316 S/S**
- 44499 1500 Liter Hosokawa Nauta Conical Mixer Dryer, 316L S/S
- 40531 12.35 Cu Ft Hosokawa Nauta Dryer, 316L S/S**
- 40534 7 Cu Ft Hosokawa Nauta Dryer, 316L S/S
- 40518 3.5 Cu Ft Hosokawa Nauta Dryer, 316 S/S

Spray

- 44525 20' Niro Spray Dryer System, S/S**



Dryers (cont)

- 31362 13' 1" GEA Niro Spray Drying System, 304 S/S
- 27045 8'9" Niro Spray Drying System, S/S
- 36539 13' 2" APV Crepaco Spray Dryer, S/S, Atomizer**
- 29329 9'6" APV Anhydro Spray Dryer System, S/S
- 40780 GEA Niro SD Micro Spray Dryer**
- 24284 9' APV Anhydro Spray Dryer System S/S
- 24285 8' APV Anhydro Spray Dryer System S/S
- 40752 8' Niro Tower Spray Dryer, S/S
- 33907 30" GEA Niro Mobile Minor Spray Dryer, S/S**
- 43532 63" Pentronix Spray Dryer, S/S
- 34206 7' Bowen Spray Dryer, S/S
- 43988 Niro Mobile Minor Spray Dryer, S/S
- 21284 F60DA Niro Spray Machine, S/S, Centrifugal

Miscellaneous Dryers

- 22447 10" X 6" Overton Double Drum Dryer
- 34511 K10 Wyssmont Turbo-Dryer, 304 S/S
- 15799 70" X 173" Rotex Cooler, Model 52C100, S/S
- 18170 Model 24-22.5XN-B Christian Brothers Therm-L-Veyor, C/S
- 16878 26-6 Strong-Scott Torus Disc Dryer, 12 CF S/S**

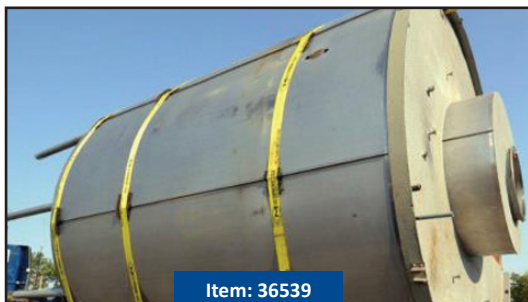
Ovens

- 36269 Gruenberg Oven, Model L18H10.OSS, S/S**
- 38369 Fedegari Depyrogenation Oven, Model FOD 5/F, S/S
- 38738 Benko Drum Hot Box, Model C6ECB-1S**
- 38744 Sahara Drum Oven, Model C3ECB-1S
- 42727 150 Sq Ft Stokes Oven, Model 38-7, S/S

Mixers

Double-Arm

- 23747 500 Gal Areco Double-Arm Mixer, S/S, 250 HP
- 23748 500 Gal Areco Double-Arm Mixer, S/S, 250 HP**
- 23966 400 Gal Readco Double-Arm Mixer, S/S, 200 HP



Item: 36539



Item: 36269



Item: 40780



Item: 33907



Item: 16878



Item: 23748



Item: 38738

Mixers (cont)

- 18658 300 Gal Day Double-Arm Mixer, C/S
- 18659 300 Gal Day Double-Arm Mixer, C/S
- 20932 200 Gal Day Double-Arm Mixer, 304L S/S, 100 HP**
- 20933 200 Gal Day Double-Arm Mixer, 304L S/S, 100 HP
- 21645 175 Gal. AMK Mixtruder, S/S, 50/30 HP
- 29911 150 Gal Day Double-Arm Mixer, S/S**
- 29914 150 Gal Day Double-Arm Mixer, S/S
- 33074 120 Gal AMK Mixtruder, C/S, 100/75 HP**
- 17309 120 Gal (450 Liter) Linden Mixtruder, S/S
- 16836 100 Gal Baker-Perkins Double-Arm Mixer, 60 HP S/S
- 20934 100 Gal Baker-Perkins Double-Arm Mixer, 304 S/S, 50 HP
- 15181 100 Gal Baker-Perkins Sigma Blade Mixer, Jacketed**
- 21922 60 Gal AMK Mixtruder, C/S, Jkt, 30/15 HP
- 21923 50 Gal Day Mixtruder, C/S, Jacketed, 50/10 HP

Double-Cone

- 36561 197 Cu Ft Crossley Economy Double-Cone Blender, S/S
- 18059 150 Cu Ft Gemco Double-Cone Blender, S/S, 25 HP
- 23343 112 Cu Ft Paul Abbe Double-Cone Blender, S/S
- 16356 110 Cu Ft Patterson Double-Cone Blender, S/S**
- 44155 75 Cu Ft Gemco Slant Cone Blender Body, S/S**
- 42683 75 Cu Ft Gemco Double-Cone Blender, S/S
- 42865 50 Cu Ft Gemco Double-Cone Blender, 316 S/S
- 42662 20 Cu Ft Gemco Blender, S/S
- 37504 16 Qt Gemco Slant Cone Dryer, 316 S/S**

High-Intensity

- 22347 2400 Liter Littleford Cooler, S/S, Jacketed, 50 HP**
- 42607 2200 Liter Henschel Cooler, Model KM2200, S/S**
- 42610 2200 Liter Henschel Cooler, Model KM2200, S/S
- 22378 1000 Liter Henschel High-Intensity Mixer, S/S
- 16343 1000 Liter Henschel Mixer, 250-JSS, S/S



Mixers (cont)

- 40088 1000 Liter New Design Engineering Container Mixer, S/S
- 42851 500 Liter Reliance High-Intensity Mixer, S/S, 125 HP**
- 22352 500 Liter Prodex/Henschel High-Intensity Mixer, S/S, 125/62.5 HP
- 22377 500 Liter Henschel High-Intensity Mixer, S/S**
- 16883 FM600A/2400 Henschel Mixer-Cooler Combination

Internal Rotor/Continuous

- 42570 KSBI Mixtron BB-35 Internal Rotor Mixer, 250 HP**
- 40664 F270 Farrel Banbury Mixer, 1500 HP, A/C, Year 2002
- 33508 G100S Drais Gelimat Compounder, 316 S/S, 1000 HP**
- 38719 F270 Farrel Banbury Mixer, Year 2002
- 34882 50 mm Leistritz ZSE-50 Pharma Twin Screw Extruder, 32:1 L/D**
- 34175 14" Teledyne Readco Continuous Processor, S/S
- 27984 F80 Farrel Banbury Mixer
- 26327 G10S Drais Gelimat Compounder, 316 S/S
- 21174 1M Intercole Bolling Intensive Mixer, 250 HP
- 38572 CP45 Farrel Continuous Mixer/Extruder
- 23695 CB-190 Littleford/Lodige Densifier S/S**
- 16767 150 mm B-P Ko-Kneader Co-Extrusion Pelletizing Line
- 33913 CP12 Farrel Continuous Mixer/Extruder
- 24823 CP23 Farrel Continuous Mixer/Extruder
- 21641 40 mm APV Continuous Mixer/Extruder, Model SE-1600
- 22159 3D Farrel Uni-Drive Gear Box
- 37966 Farrel Banbury Mixer, Model BR**
- 39426 Farrel Banbury Mixer, Model OOC
- 15506 W & P Internal Rotor Mixers, 200 L Working
- 36817 Scott Turbolizer, S/S, 15 HP
- 42849 Farrel Banbury Lab Mixer, Model BR**



Mixers (cont)

Nauta

- 31716 212 Cu Ft Hosokawa Micro Nauta Mixer, Model RB-5, S/S
- 24260 200 Cu Ft Ross Nauta Mixer, 304 S/S
- 14122 176 Cu Ft Day Nauta Mixer, 304L S/S
- 31363 123 Cu Ft Hosokawa Micron Nauta Mixer, 304 S/S, Model 35 MFC-44
- 15539 106 Cu Ft Vrieco Nauta Mixer, S/S, Model 30VV-1**
- 37443 52.5 Cu Ft Nauta Mixer, 304 S/S
- 27838 7 Cu Ft Day Nauta Mixer, 304 S/S
- 38796 3.5 Cu Ft Day Nauta Dryer, 304 S/S**

Planetary

- 22062 1400 Gal Ross VM1400 Versamix, C/S, 200/75 HP
- 16018 1000 Gal Ross Versamix, S/S, Model VM1000**
- 29135 200 Gal Scott Turbon Double Planetary Mixer, 304 S/S
- 26043 40 Gal Ross Planetary Mixer, S/S, PVM40**
- 41851 10 Gal Ross Planetary Mixer, S/S, PVM 10**
- 33432 2 Gal Ross Double Planetary Mixer, Zirconium 702, 150/100#, LDM2
- 38025 500 Liter Olsa Double-Motion Vaccum Mixer, 316L S/S
- 42726 340 Qt AMF Glenn Mixer, S/S**
- 42754 340 Qt AMF Glenn Mixer, S/S
- 43363 1 Qt Ross Double Planetary Mixer, Model DPM-1Qt, S/S
- 22480 50 Liter (18.5 Gal) Ross Twin-Motion Turbo-Emulsifier, S/S
- 29428 10 Liter Ross Turbo-Emulsifier, Model TE.3-10**

Plow

- 23696 KM13500 Littleford Mixer, S/S, Jacketed, Choppers, 500 HP
- 21353 CPB315 American Process Blender, S/S, Jacketed, Choppers
- 25734 FKM15000 Littleford Mixer, C/S, Jacketed, Vacuum**
- 22898 VT4000 Littleford Mixer/Dryer, 304 S/S, Jacketed, 15/75#
- 25727 FKM8000D Littleford Mixer, C/S, Jacketed, Vacuum
- 27185 FKM1200E(2Z) Littleford Mixer, S/S, Jacketed, Choppers
- 29847 FKM1200D Littleford Mixer, S/S, Choppers, 75/75#**



Item: 16018



Item: 38796



Item: 29428



Item: 15539



Item: 26043



Item: 41851



Item: 47726



Item: 25734



Item: 29847

Mixers (cont)

- 43965 FKM2000E Littleford Mixer, S/S, Jacketed, Choppers
- 42282 FKM600D Littleford Mixer, S/S, Choppers**
- 22052 KM600D Littleford Mixer, S/S, Jacketed, 25 HP
- 40789 FKM600D Littleford Mixer, S/S, Jacketed, Choppers**
- 20425 FKM4000E Littleford Mixer, 316 S/S, Jacketed
- 20966 DVT130(1Z) Littleford Mixer, S/S, Jacketed, Choppers, Vacuum
- 29855 DVT130 Littleford Mixer/Reactor S/S, Jacketed, Choppers, 250/100#**
- 36593 FKM4200D Littleford Mixer, C/S, Jacketed, 200 HP
- 19388 FKM600D Littleford Mixer, S/S, Choppers

Ribbon/Paddle

- 37441 700 Cu Ft Ribbon Blender, C/S
- 37442 700 Cu Ft Ribbon Blender, S/S
- 15269 400 Cu Ft American Process Paddle Mixer, C/S, Jacketed
- 40217 250 Cu Ft Rietz Twin Shaft Ribbon Blender, S/S**
- 19251 155 Cu Ft Day Ribbon Blender, C/S, 30 HP
- 40918 150 Cu Ft Readco Ribbon Blender, S/S, 25 HP**
- 42637 100 Cu Ft A & M Process Ribbon Blender, S/S, 30 HP**
- 40215 120 Cu Ft American Process Ribbon Blender, S/S, 50 HP
- 18555 87 Cu Ft Strong Scott Ribbon Blender, S/S
- 18446 85 Cu Ft Strong Scott Ribbon Blender, S/S
- 20929 80 Cu Ft Ribbon Blender, S/S, 15 HP
- 30343 80 Cu Ft Areco Ribbon Blender, S/S, 20 HP**
- 15741 75 Cu Ft S. Howes Ribbon Blender, 304 S/S
- 40919 70 Cu Ft Readco Ribbon Blender, S/S, 20 HP
- 40920 70 Cu Ft Readco Ribbon Blender, S/S, 15 HP**
- 30601 62 Cu Ft Marion Paddle Mixer, S/S, 10 HP**
- 32855 62 Cu Ft J H Day Ribbon Blender, 304 S/S, 40 HP
- 32857 62 Cu Ft J H Day Ribbon Blender, 304 S/S, 40 HP
- 41584 60 Cu Ft Strong Scott Ribbon Blender, S/S, 20 HP



Mixers (cont)

- 27154 58 Cu Ft Sprout Waldron Ribbon Blender, S/S
- 27155 58 Cu Ft Sprout Waldron Ribbon Blender, S/S**
- 41725 54 Cu Ft Day Ribbon Blender, 304 S/S, 15 HP
- 25341 50 Cu Ft Day Ribbon Blender, S/S, Jacketed
- 41726 36 Cu Ft Day Ribbon Blender, 304 S/S, 15 HP
- 16267 36 Cu Ft Pillsbury Ribbon Blender, San S/S**
- 33098 18 Cu Ft S Howes Ribbon Blender, 304 S/S, 3 HP
- 27741 15.4 Cu Ft Marion Paddle Blender, 304 S/S, 5 HP**

Twin-Shell

- 36558 100 Cu Ft O'Hara Twin-Shell Blender, S/S**
- 14466 75 Cu Ft Patterson-Kelley Twin-Shell Blender, 170# Density
- 36605 60 Cu Ft Patterson-Kelley Twin-Shell Cross Flow Blender, S/S**
- 15511 60 Cu Ft Patterson-Kelley Twin-Shell Blender, S/S
- 42753 50 Cu Ft A & M Process Twin-Shell Blender, 316 S/S
- 23357 50 Cu Ft Patterson-Kelley Twin-Shell Blender, 304 S/S, 55# Density
- 35619 50 Cu Ft Patterson-Kelley Twin-Shell Blender, 304 S/S, 5 HP**
- 18290 50 Cu Ft Patterson-Kelley Twin-Shell Blender, S/S, Jacketed
- 27278 50 Cu Ft Patterson-Kelley Twin-Shell Blender, S/S, Pin Bar
- 25870 30 Cu Ft Gemco Twin-Shell Blender, S/S, Bar
- 25912 30 Cu Ft Patterson-Kelley Twin-Shell Blender, Liquid Bar, 55#
- 33778 20 Cu Ft Stainless Steel V Blender, 2 HP**
- 25470 20 Cu Ft Patterson-Kelley Cross Flow Blender, 304 S/S, Liquid Bar
- 33785 20 Cu Ft Sigma Mfg Twin-Shell Blender, S/S, 2 HP
- 40096 20 Cu Ft Patterson-Kelley Twin-Shell Blender, 316 S/S, Liquid Bar
- 42173 10 Cu Ft Patterson-Kelley Twin-Shell Blender, S/S, Liquid Bar**
- 42174 10 Cu Ft Patterson-Kelley Twin-Shell Blender, S/S, Liquid Bar
- 41705 3 Cu Ft Patterson-Kelley Twin-Shell Solids Processor, S/S



Item: 27155



Item: 16267



Item: 27741



Item: 36558



Item: 35619



Item: 333778



Item: 36605



Item: 42173

Mixers (Cont)

- 37824 2 Cu Ft Patterson-Kelley Twin-Shell Blender, S/S**
40967 2 Cu Ft Patterson-Kelley Twin-Shell Blender, S/S, Liquid Bar
38561 1 Cu Ft Patterson-Kelley Blender, S/S
38961 16/8/4 Qt Patterson-Kelley Blender, S/S, Bar

Miscellaneous

- 23749 6GP National Engineering Simpson Mix-Muller C/S
21646 R11 Eirich Mixer, C/S
35727 175 Cu Ft Forberg Fluid Zone Mixer, C/S, 100 HP
33894 2.12 Cu Ft Dynamic Air Bella Twin-Shaft Fluidized Zone Mixer

Tanks

Carbon Steel

- 43571 35000 Gal Brown Minneapolis Receiver Tank, C/S, 50#**
43143 30000 Gal O'Conner Storage Tank, C/S
43128 24500 Gal O'Conner Storage Tank, C/S
43234 22500 Gal O'Conner Storage Tank, C/S
43144 18000 Gal O'Conner Storage Tank, C/S
43162 14500 Gal O'Conner Storage Tank, C/S
43233 11800 Gal O'Conner Storage Tank, S/S
43305 10500 Gal O'Conner Mix Tank, C/S
43406 10000 Gal O'Conner Mix Tank, C/S, 15 HP
43106 9000 Gal Stainless Steel Storage Tank

Glass-Lined

- 28869 2500 Gal Dedietrich Glass-Lined Receiver, Horizontal, 30#**
28455 1000 Gal Pfaudler Glass-Lined Receiver, 100#
21448 600 Gal Tycon Glass-Lined Receiver, 50# F/V

Stainless Steel Non-Jacketed

- 41818 60000 Gal Paul Mueller Storage Tank, S/S
41817 50000 Gal Paul Mueller Storage Tank, S/S
41816 45000 Gal Paul Muller Storage Tank, S/S
43463 40000 Gal Enerfab Storage Tank, 304L S/S
43474 27000 Gal Stainless Steel Storage Tank



Item: 37824



Item: 33894



Item: 43128



Item: 28869



Item: 43106



Item: 41816



Item: 43474



Item: 43571

Tanks (Cont)

- 43465 25000 Gal Enerfab Storage Tank, 304L S/S**
- 40435 25000 Liter Kells Storage Tank, S/S
- 43166 24000 Gal Hamilton Storage Tank, 304 S/S
- 41825 20000 Gal DCI Storage Tank, S/S
- 43468 21000 Gal Stainless Steel Storage Tank**
- 37620 16900 Gallon Stainless Steel Tank, 304 S/S
- 43471 16000 Gal Stainless Steel Storage Tank
- 42990 15000 Gal 304 Stainless Steel Storage Tank
- 43119 12500 Gal Lake Nordic Mine Co Storage Tank, 304 S/S
- 40807 12500 Gal Panhandle Tank, 304 S/S
- 42882 12000 Gal ADM Storage Tank, S/S**
- 43464 12000 Gal Enerfab Storage Tank, 304L S/S
- 42567 10000 Gal 316 Stainless Steel Tank
- 43477 10000 Gal Enerfab Receiver, 304L S/S, 80#
- 41823 10000 Gal Stainless Steel Storage Tank
- 31599 3000 Gal Mueller Twin-Motion Processor, 316 S/S, 90#
- 43995 2000 Gal Patterson Industries Receiver, 316L S/S, 600#

Stainless Steel Jacketed

- 43473 8000 Gal Mueller Receiver Tank, 316L S/S, 80/120#
- 34708 5000 Gal Walker Processor, S/S**
- 34711 3500 Gal Processor, 304 S/S
- 37017 3000 Gal Precision Stainless Jacketed Receiver, 316L S/S, 50/100#**
- 38814 2500 Liter Robert Sanderson Kettle, 304L S/S, 58#
- 41293 2200 Gal Perma San Kettle, S/S, 50#**
- 33686 1500 Gal Crepaco Kettle, Inconel 625, 125#
- 30239 1500 Gal Lee Double-Motion Kettle, 15#**
- 28227 825 Gal Lee Double-Motion Vacuum Kettle, 316 S/S
- 33648 850 Gal Lee Double-Motion Kettle, 316 S/S, 15/125#
- 33651 850 Gal Lee Double-Motion Kettle, 316 S/S, 15/125#
- 33652 850 Gal Lee Double-Motion Kettle, 316 S/S, 15/125#



Item: 43465



Item: 37017



Item: 43468



Item: 30239



Item: 42882



Item: 34708



Item: 41293

Tanks (Cont)

29131	600 Gal Mueller Kettle, 304 S/S, Jacketed, 5 HP AGI
29132	600 Gal Mueller Kettle, 304 S/S, Jacketed, 5 HP AGI
39857	400 Gal Lee Kettle, S/S
40076	260 Liter BCD Kettle, S/S
34789	250 Gal Lee Twin-Motion Kettle, S/S, 135#
22982	225 Gal Lee Twin-Motion Kettle, 316 S/S
39866	80 Gal Groen Triple-Motion Kettle, S/S
44512	10 Gal J C Pardo Triple-Motion Vacuum Kettle, S/S

Heat Exchangers

Alloy

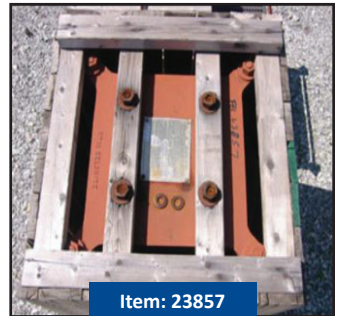
30090	1156 Sq Ft Futura Corp Heat Exchanger, Titanium, 75/60#
29728	399 Sq Ft Atlas Heat Exchanger, Hastelloy C22, 100/100#
30560	141 Sq Ft Titanium IND Heat Exchanger, Zirconium, 150/150#
26520	96 Sq Ft Cosmos Heat Exchanger, Tantalum, 150/150#
30107	86 Sq Ft Bigelow Heat Exchanger, Hastelloy C22, 75/75#
29127	65 Sq Ft CMU U-Tube Heat Exchanger, Hastelloy C22, 75/75#
23492	54 Sq Ft Cosmos Heat Exchanger, Tantalum, 150/150#
25036	40 Sq Ft Astro Cosmos Heat Exchanger, Tantalum, 100/100#
23502	34 Sq Ft Cosmos Heat Exchanger, Tantalum, 150/150#

Carbon Steel

31574	822 Sq Ft Doyle & Roth Heat Exchanger, C/S, 75/75#
35135	258 Sq Ft Ketema Heat Exchanger, C/S, 150/250#
28599	133 Sq Ft Atlas Heat Exchange C/S, 150/150#
35136	82 Sq Ft Ketema Heat Exchanger, C/S, 150/250#

Karbate Glass-Lined

26710	60 Sq Ft Carbone Heat Exchanger, 100/100#
24776	70 Sq Ft Pfaudler Graphite Heat Exchanger, 100/100#
26505	58 Sq Ft Carbone Heat Exchanger, 100/100#
23857	55 Sq Ft Kearny Block Type Heat Exchanger, 75#



Heat Exchangers (Cont)

- 23859 45 Sq Ft Kearny Block Type Heat Exchanger, 75#
35701 45 Sq Ft Carbone Graphilor Heat Exchanger, 75/75#

Stainless Steel

- 37523 2006 Sq Ft Enerquip Heat Exchanger, 304L S/S, 150/75#**
36348 1766 Sq Ft Patterson-Kelley Heat Exchanger, 304 S/S, 150/150#
36349 1766 Sq Ft Patterson-Kelley Heat Exchanger, 304 S/S, 150/150#
31063 1440 Sq Ft Adscio Heat Exchanger, 304L S/S, 495/85#
36821 804 Alfa Laval Plate Heat Exchanger, S/S, 145#
24933 731 Sq Ft Kurose Spiral Heat Exchanger, 304 S/S, 128/71#
42862 645 Sq Ft Chemical Fabricators Heat Exchanger, 304L S/S, 120/120#
28057 443.3 Sq Ft Superchanger Plate Heat Exchanger, 100#
28058 443.3 Sq Ft Superchanger Plate Heat Exchanger, 100#
43262 430 Sq Ft BOS Hatten Heat Exchanger, S/S, 141/122#
43259 400 Sq Ft AS Leitch Heat Exchanger, S/S, 150/75#
43263 400 Sq Ft Patterson Heat Exchanger, 316 S/S, 75/100#
31127 231 Sq Ft Paterson-Kelley Heat Exchanger, 316 S/S, 150/150#
44508 129 Sq Ft Atlas Heat Exchanger, Hastelloy C22, 145/145#
43483 Groen Thin Film Heat Exchanger, Model E-696, S/S
43264 6' Inox Reboiler Column, S/S

Mills

Colloid Mills

- 35979 Oakes Continuous Mixer, S/S, Model 8MB501
24974 Model ME-400DLS Ross In-Line Homogenizer, S/S
29538 Fryma Coball Mill, Model MS-Z12, S/S
42700 Premier Colloid Mill, 10 HP
43551 MZ80 Fryma Koruma Colloid Mill, S/S

Comil/Cone Mills

- 40275 GS220 Glatt Mill, S/S**



Item: 37523



Item: 36348



Item: 42862



Item: 29538



Item: 40275



Item: 43259



Item: 24974



Item: 43551

Mills (Cont)

- 40277 GS220 Glatt Mill, S/S
 40078 U10 Quadro Comil, S/S
37935 Quadro Comil, Model 194 Ultra, 316 S/S, 5 HP
 40001 U10 Quadro Comil, S/S
 42617 U10 Quadro Comil, S/S
 41149 Quadro Comil, Model U20, S/S
39985 U20 Quadro Comil, S/S
 32854 Quadro Comil, Model 196S
40961 196S Quadro Comil, S/S
 32132 Quadro Comil, Model 194S, S/S
 39867 196S Quadro Comil, S/S
 26682 Quadro Comil, Model 194S, S/S, 5 HP

Fitzmills

- 36270 L1A Fitzmill, S/S With Isolator**
 37852 L1A Fitzmill With Isolator
 43560 M5A Fitzmill, S/S
 29827 M5A Fitzmill, 316L S/S, 3 HP
35348 M5A Fitzmill, S/S, Pan Feed, 5 HP
 28091 D6A Fitzmill, S/S, 5 HP
26565 DKASO12 Fitzmill, S/S, Screw Feed
 32153 D6A Fitzmill, S/S, 5 HP
 42663 DASO6 Fitzmill, S/S, Gravity Feed, Containment
42664 DASO6 Fitzmill, S/S, Pan Feed
 28506 DASO6 Fitzmill, S/S, Screw Feed, 10 HP
 32865 DKASO12 Fitzmill, S/S, 15 HP

Hammer Mills

- 34650 96" CE Raymond IMP Mill, C/S**
28077 40 HP Williams Hammer Mill
 30472 AH-7 Ann Tsung Atomizer Hammer Mill, S/S, 7.5 HP



Mills (Cont)

Homogenizers

- 28306 DEBEE 2000P 75/45 Bee Int'l Homogenizer, 45000 PSI
- 28307 DEBEE 2000P 75/45 Bee Int'l Homogenizer, 45000 PSI
- 33498 IKA Dispax Mixer, Model DR 2000/50, S/S, 250 HP**
- 33499 IKA Powder Liquid Mixer, Model CMS 2000/40, S/S
- 41967 Microfluidics Microfluidizer, Model M-610-75**
- 27659 NS5160HA Niro Soavi Homogenizer
- 37944 Model 1500 Urschel Comitrol Mill, Hastelloy C22, 15 HP**
- 26981 R16.56 APV (Rannie) Homogenizer, S/S, 1000 Bar
- 28752 NS3011H Niro Soavi Homogenizer, S/S
- 42003 MD450 Ross In-Line High Shear Mixer, S/S, 50 HP
- 14182 SS3000SGR Cherry-Burrell Homogenizer**
- 41803 Koruma Colloid Mill, 316 S/S, Model V 60/10**
- 41971 Microfluidics Microfluidizer, Model M-210A-EH
- 36760 Bee International Homoginizer, Model Mini DEBEE, 45000 PSI**

Media Mills

- 35345 Draisewerker Perl Mill, Model DCP-Megaflow ACS-800/PUC, 300 HP**
- 34792 LME-100K Netzsch Media Mill, C/S, 75 HP**
- 38687 HM-45 Premier Horizontal Media Mill
- 38688 HM-45 Premier Horizontal Media Mill
- 26351 LME20 Netzsch Media Mill, S/S
- 33320 100S Union Process Attritor, 20 HP
- 38693 KD25C Chicago Boiler Dyno-Mill Horizontal Media Mill**
- 28805 HM-15 Premier Horizontal Media Mill, 20 HP
- 13341 M80S Sweco Vibro-Energy Grinding Mill, S/S, 40 HP
- 28305 LME4 Netzsch Horizontal Media Mill
- 18743 10L Eiger Mark II Horizontal Media Mill, S/S
- 28806 LMI-8 Netzsch Horizontal Media Mill
- 26349 LME4 Netzsch Media Mill, S/S



Item: 41967



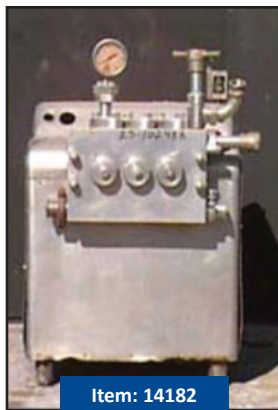
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Item: 37944



Item: 41803



Item: 14182



Item: 35345



Item: 36760



Item: 34792



Item: 38693

Mills (Cont)

Micro-Pulverizers

29584 Pulva Corp Cryogenic Grinding System, S/S, 75 HP

41253 ACM30 Hosokawa Micron Mill, S/S, 40 HP

40100 CX30-ACM Mikro Pulverizer, S/S, 30 HP

40090 ACM30 Hosokawa Micron Pulverizer, C/S

31369 8MA Mikro Atomizer, S/S, 100 HP

40862 ACM10 Hosokawa Micron Pulverizer, S/S

41256 CX40 Blue Tech Mill, S/S & C/S, 40 HP

40089 ACM10 Hosokawa Micron Pulverizer, C/S

43987 ACM10 Mikro Pulverizer, C/S, 20 HP

19083 2PF Mikro Pulverizer, S/S, 20 HP

22426 3TH Mikro Pulverizer, C/S, 40 HP

20959 2DH Mikro Pulverizer, S/S, 10 HP

42620 Micron Master Jet Pulverizer

Oscillating Granulators

17520 MGE Frewitt Oscillating Granulator, S/S

33068 AR-400 Erweka Oscillating Granulator, S/S

43920 Stokes Oscillating Granulator, Model 43-6

16429 MG-205 Frewitt Oscillating Granulator

27152 Colton Oscillating Granulator, S/S

Pebble Jar Mills

38703 6.5' X 6' Pebble Mill, Ceramic Lined

22751 5' X 4' Paul Abbe Pebble Mill, Jacketed

17342 3' X 5' Paul Abbe Pebble Mill, 316 S/S, Ceramic Lined

32059 57" X 57" Paul O Abbe Pebble Mill, Brick Lined

34588 DM-4L Sweco Vibro Energy Mill

34593 GM-041 Sweco Vibro Energy Mill

Pellet Mills

34311 Bliss Pellet Mill, Modelb-200B-250



Item: 41253



Item: 40862



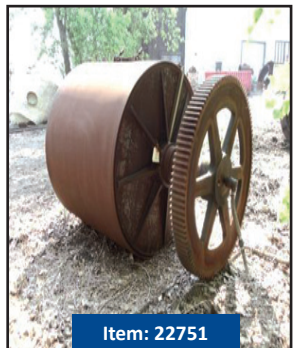
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Item: 33068



Item: 27152



Item: 22751



Item: 32059



Item: 34311

Mills (Cont)

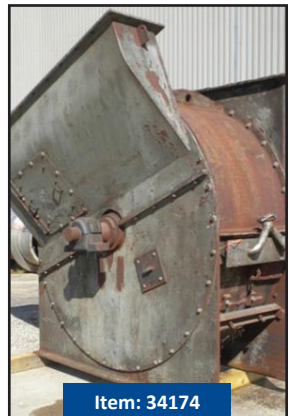
- 34312 Bliss Pellet Mill, Modelb-200B-250
- 35534 Bliss Pellet Mill, Model B120A-141
- 37814 Nica Systems Extruder, S/S
- 37815 Nica Systems Spheronizer, S/S**
- 26775 Nica Extruder, Model E-140, S/S
- 42539 QI-1000 Fuji Paudal Marumerizer, 316 S/S**
- 35924 Niro Fielder Nica Extruder, Model E-140
- 26772 Nica Spheronizer, Model S320, S/S
- 18626 EXDS-60 Fuji-Paudal X-Truder, S/S
- 34750 CPM Pellet Mill**
- 25863 Aeromatic Nica Mixer/Granulator, Type M6, S/S

Pug Mills

- 32863 8" Bonnot Extruder, S/S, 30 HP**
- 29905 6" Bonnot Extruder C/S 10 HP
- 23943 2.25" Bonnot Pug Mill Extruder, 10 HP
- 29906 2" Bonnot Extruder C/S 1.5 HP
- 29907 2" Bonnot Extruder C/S 1.5 HP
- 40751 Bonnot Extruder, S/S
- 34315 Pugmill Systems Pugmill, Model 50M**

Pulverizers

- 40993 A250CW Hosokawa Alpine Mill System, S/S**
- 29566 24" Sturtevant Air Jet Pulverizing System, S/S
- 30402 100 AFG Alpine Jet Mill System, S/S**
- 39954 Wedco Dual Pulverizing System, Model DE-28**
- 24858 Alpine Cryogenic Grinding System, 20 HP
- 27007 PB-15 Rietz/Bepex Pre-Breaker, S/S
- 29578 24" Sturtevant Air Jet Pulverizing System, Ceramic Lined
- 25893 PC38 Strong Scott Pulverizer, 200 HP
- 34174 96" CE Raymond Imp Mill, C/S**
- 29969 RI-24-K354 Rietz Desintegrator, S/S, 300 HP**
- 29970 RI-24-K354 Rietz Desintegrator, S/S, 300 HP



Mills (Cont)

25372 Model 7-10 Majac Jet Pulverizer Classifier, S/S, 30 HP

19199 RE-14 Rietz Extructor, S/S, 40 HP

42800 PCS10 Pepex Pulvocron, S/S

40068 4" Sturtevant Micronizer, S/S

39984 GS 180 Glatt Quick Sieve Mill, S/S

42632 Urschel Comitrol Dicer, Model 1500, 30 HP

29563 REC100 Reduction Engineering Pulverizer, S/S, 60 HP

16301 28" Schutz-O'Neill Air Swept Pulverizing Mill, 100 HP

28108 20" Sturtevant Micronizer, S/S

Sand Mills

28374 Q50 Union Process Circulation Attritor, 50/16.7 HP

16276 100S Szegvari Attritor, 20 HP

16486 RM33GL Netzsch Vertical Sand Mill, 30 HP

26902 30P Chicago Boiler Sand Mill, 40 HP

Three-Roll Mills

38695 14" X 30" Day Three-Roll Mill

23990 14" X 30" Day Three-Roll Mill

38698 10" X 22" Day Three-Roll Mill

17158 9-13/16" X 19-11/16" Buhler Three-Roll Mill

38699 8" X 12" Lehmann Three-Roll Mill

Two-Roll Mills

40665 100" X 26" Farrel Two-Roll Mill 250 HP DC

42571 60" KSBI Two -Roll Mill, 250 HP

42125 22" X 60" Farrel Two-Roll Mill, Unitized, 125 HP

41702 22" X 20" X 60" Adamson Two-Roll Mill, 300 HP

Bag Loading

24243 Flex-Weight Corp. Super Sack Loader

25292 Taylor Products Super Sack Loader, Model IBC-3000

30551 Extract Technologies Laminar Pack Off System, S/S



Item: 42800



Item: 16486



Item: 29563



Item: 38695



Item: 38699



Item: 30551



Item: 40665



Item: 41702

Bag Unloading

- 40694 Super Sack Unloading Station
- 36413 Schick Push/Pull Railcar Unloader, 40 HP
- 22044 AZO Bag Dump Station, S/S**

Drum Lifts

- 22251 MO Industries Barrel Lifter
- 22257 Servo-Lift Mobile Drum Handler, All S/S
- 27149 Arma SmartDrum Transfer System**
- 31025 Hercules Barrel Dumper, Model H799-SP
- 27674 MO Industries Drum Lift, Model ELD100R**
- 30040 Meto Corp Metolift Drum Lifter, Model ULS-02**
- 35651 Meto Corp Metolift Drum Lifter, Model M22550-10
- 38862 Meto Corp Drum Lifter, Model Palpharmamove

Feeders

- 23342 SEMCO Pneumatic Conveying System
- 23449 12" X 14' Summerlot Twin-Screw Feeder S/S**
- 24195 Dedietrich Powder Transfer System Model PTS100-N
- 25217 Accurate Feeder With Dust Collector
- 25985 American Process Screw Feeder, S/S, 1.5 HP**
- 27673 PIAB Vacuum Loading Station
- 27744 3" APV Ingredient Feeder**
- 30350 200 Cu Ft Design Metals Discharge Hopper/Screw Conveyor S/S
- 32617 2" Vibra Screw Auger Feeder, S/S
- 36606 PIAB Conveyor, S/S, Model VCP-400
- 39714 12" X 30" Eriez Vibratory Feeder, Model 666C**
- 40552 6" X 19' Ensign Equipment Screw Feeder, C/S
- 40687 6" X 48" Acrison Screw Feeder S/S

Conveyors

Belt Conveyors

- 36507 Glass Crushing Line, 3 HP**
- 24499 3" TI Industries Clean Room Sectional Conveyor, S/S



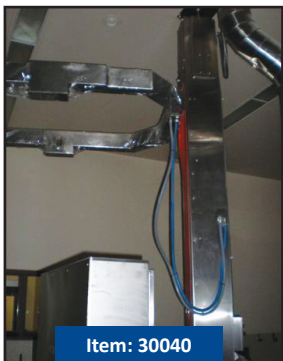
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Item: 27149



Item: 27674



Item: 30040



Item: 23449



Item: 25985



Item: 27744



Item: 39714



Item: 36507

Conveyors (cont)

30054 3.25" X 280" Arrowhead Conveyor

39240 Hytrol 25' Long Conveyor

39243 Hytrol 25' Long Conveyor

Screw Conveyers

40573 14" X 36' Carbon Steel Screw Conveyor

40589 14" X 16' Carbon Steel Screw Conveyor

40586 14" X 14' Carbon Steel Screw Conveyor

40574 14" X 9.5' Carbon Steel Screw Conveyor

40587 13" X 16' Carbon Steel Screw Conveyor

40582 13" X 12' Carbon Steel Screw Conveyor

40581 12" X 19' Carbon Steel Tube Screw Conveyor

40588 12" X 16' Carbon Steel Screw Tube Conveyor

40693 9" X 12' Screw Conveyor S/S

40690 6" X 13' 4" Screw Conveyor S/S

Slat Conveyers

33724 35" NJM/CII Bi-Flow Conveyor

30483 28" X 36" Universal Machine Bi-Directional Conveyor

31015 41" X 6' FP Development Bi-Flow Conveyor

41377 Garvey "U" Conveyor, Model 9600

Cranes and Hoists

38480 7.5 Ton Whiting Overhead Crane, P & H Hoist

31608 3 Ton Christon-Moore

31613 2 Ton Vulcan Hoist, Model L4T1512-1

31607 2 Ton Christon-Moore

43658 Compac 250 Hoist

Trucks And Lifts

27679 Crown Electric Fork Lift

27684 Meto Lift Walk-Behind Fork Lift, Model PMFL-02



Item: 30054



Item: 43658



Item: 39243



Item: 40589



Item: 40690



Item: 30483



Item: 34840

Trucks and Lifts (cont)

- 27894 FMC Automatic Palletizer/Depalletizer, Model RX 2000
27978 American Specialty Walk-Behind Lift, 2000#

Air Compressors

- 37653 1250 HP Ingersol Rand Centac Air Compressor
37708 700 HP Joy Air Compressor
 43903 350 HP Ingersol Rand Air Compressor, Model SR-EPE350-2S
 20935 350 HP Quincy Air Compressor
 36435 300 HP Joy Turbo Air 18 Compressor, 125 PSI
 33800 150 HP Gardner Denver Screw Air Compressor
37497 125 HP Kobelco Air Compressor, Water Cooled
 21928 60 HP Atlas Copco Compressor, Model ZT245
 23700 40 HP Mako High Pressure Air Compressor, 1235 PSI

Blowers

- 37507 500 HP Buffalo Forge Blower, 60000 ACFM
 18855 125 HP Gardner Denver Blower, C/S
39257 Hoffman Blower, Model 74106A101

Boilers

Package Steam Boilers

- 44573 700 HP York Shipley Global Package Firetube Steam Boiler
 43887 100 HP Fulton Steam Boiler, Model VMP100, 150#
42231 100 HP Cleaver Brooks Boiler, Model CB-700-100, 150#
 43416 VA Power Waste Heat Steam Generator
41574 Finn Aqua Pure Steam Generator, Model 300S1
 43547 Meco Pure Steam Generator, Model CS1500

Boilers Hot Oil Or Water

- 40225 100 kW Sterlco Temperature Controller**
37672 12 kW Sterlco Temp Control Unit
 34497 10 kW Advantage Temperature Controller
 39774 10 kW Chromalox Oil Heater



Item: 27978



Item: 37708



Item: 40225



Item: 37672



Item: 41574



Item: 37497



Item: 42231



Item: 39257

Boilers (cont)

- 43425 16 Million Btu International Boiler Hot Oil Boiler
- 40112 1.5 Million Btu Vapor Power Oil Heater**
- 44261 350 HP Johnston Package Steam Boiler, Model PFTA-350, 200#
- 40477 174 Sq Ft American Bending Co Boiler, 650 F
- 43549 Hopkins Volcanic Hot Oil Heater, Model 150**
- 25002 Glycol Heating/Cooling Skid, 5 HP Pump
- 25023 Glycol Heating/Cooling Skid, 10 HP Pump

Balers And Compactors

- 36429 Maren Baler, Model 72
- 36431 Maren Baler, Model 72**
- 36432 Lake Engineering Baler, Model 60" A-30**
- 36433 Maren Baler, Model 72
- 38519 McClain Compactor, Model MAG3 With Receiver**

Dust Collectors

- 40765 Torit Dust Collector, C/S
- 42069 Hoffman Dust Collection System, 50 HP
- 41727 Schick Vacuum Conveying System
- 29884 3616 Sq Ft Torit Dust Collector, C/S, 40 HP
- 37952 1808 Sq Ft Torit Dust Collector, C/S**
- 17547 754 Sq Ft Mikro Pulsaire Dust Collector
- 30348 484 Sq Ft Shick Dust Collector C/S**
- 26806 470 Sq Ft Torit Dust Collector, S/S
- 32667 500 Sq Ft Kleissler Airjex Dust Collector, C/S
- 36341 150 Sq Ft Flanders Dust Collector, S/S**

Filters

Belt Vacuum

- 24240 80" Eimco Expressor Belt Filter S/S
- 21664 12" Eimco Expressor Belt Filter, S/S
- 19843 14" X 12'6" Denver Belt Vacuum Filter, S/S



Item: 40112



Item: 43549



Item: 37952



Item: 36431



Item: 36432



Item: 38519



Item: 30348



Item: 36341

Filters (cont)

- 14955 6" X 60" Eimco Extractor Belt Filter, S/S**
41422 4 Sq Ft Oberlin Pressure Filter, Model OPF4
 16578 Model B005 Vacuband Filter, S/S
 41184 .2 Sq Meter Larox Pannevis Vacuum Belt Filter, Hastelloy

Inline Basket

- 31548 43" X 42" Stainless Fluid Products Cartridge Filter, S/S,75#**
 31549 43" X 42" Stainless Fluid Products Cartridge Filter, S/S,75#
43458 42" X 28" RP Products Multi Basket Filter, S/S, 150#
 28181 18" X 24" Patterson Ind Basket Filter, 304L S/S, 750#
 43461 8" RP Products Basket Filter, S/S, 150#
 43224 8" York Basket Filter, S/S, 150#
 43376 8" York Basket Filter, S/S, 150#
 29753 7" X 14" Basket Filter, 316 S/S
 30492 6" X 18" Rosedale Basket Filter, 316 S/S

Filter Presses

- 25763 60" (1500 mm) JWI Filter Press, Poly, 1275 SF, 123 Cu Ft
32521 51" Edwards & Jones Filter Press, Poly, 75 CF, 1700 Sq Ft
 25780 48" (1200 mm) Komline Filter Press, Poly, 1000 SF, 128 Cu Ft
 16442 48" Netzsche Filter Press, Poly 66.35 Cu Ft
 16778 48" Perrin Filter Press, 41 CF, 1081 Sq Ft
 16268 48" Hoesch Filter, Press, Poly, 1141 Sq Ft
16163 48" Shriver, CGR, Poly, 1100 Sq Ft
 16116 42" Augerot Filter Press, Poly, Recessed, 582 Sq Ft
 13796 1500 mm (60") Hoesch Filter Press, 77.28 Cu Ft
15548 1450 mm (57") Durco Filter Presses, Poly, 360 Cu Ft
 16332 1000 mm (39") Shriver Filter Press, Poly
28081 1000 mm (39") Hoesch Filter Press, Poly, 33 Cu Ft
 37958 1000 mm (39") Star Systems Filter Press, 31 Cu Ft, 721 Sq Ft

Nutsche

- 33410 6 Sq Meter Rosenmund Nutsche Filter Dryer, 316L S/S, 50/150#**



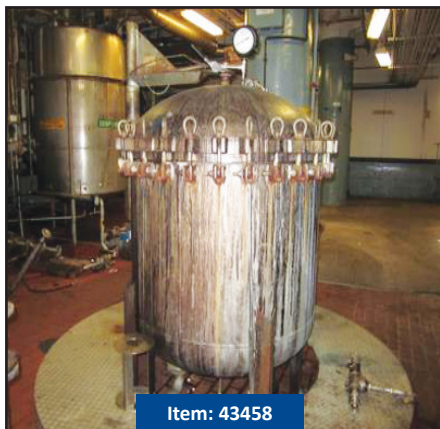
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Item: 41422



Item: 31548



Item: 43458



Item: 33410



Item: 32521



Item: 15548



Item: 16163



Item: 28081

Filters (cont)

28559	6 Sq Meter Rosenmund Nutsche Filter, Hastelloy C
30515	4 Sq Meter Cogeim Nutsche Filter Dryer, 316L S/S
28489	4 Sq Meter Rosenmund Nutsche Filter, Hastelloy C
28864	3 Sq Meter Rosenmund Nutsche Filter, Hastelloy C276
28865	3 Sq Meter Comer Nutsche Filter Dryer, Hastelloy C22
28922	3 Sq Meter Rosenmund Filter Dryer, 316L S/S
25190	2.4 Sq Meter Rosenmund Nutsche Filter, S/S
26777	1.6 Sq Meter Rosenmund Nutsche Filter, Hastelloy C276
44484	1.5 Sq Meter 3V Cogiem Nutsche Filter Dryer, S/S
40494	.6 Sq Meter Cogeim Nutsche Filter Dryer, Hastelloy C22
41548	.25 Sq Meter Rosenmund Nutsche Filter Dryer, Hastelloy C276
39290	.125 Sq Meter Powder Systems Filter Dryer, Hastelloy C22
40493	.38 Sq Meter Cogeim Agitated Nutsche Filter, Hastelloy C276
43364	.66 Sq Meter Aurora Nutsche Filter, Model A-36-C, Hastelloy C22
33026	.6 Sq Meter Northland Pressure Nutsche Filter, Hastelloy C276
29380	.2 Sq Meter Rosenmund Filter 316L, S/S
40500	.1 Sq Meter Cogeim Nutsche Filter Dryer, Model Filtrodry FPP-010-SD/FM
40699	.03 Sq Meter Rosenmund Nutsche Filter Dryer, Hastelloy C22
40700	.03 Sq Meter Rosenmund Nutsche Filter Dryer, Hastelloy C22
39400	.046 Sq Meter PSL Nutsche Filter Dryer, Hastelloy C22, 90/90#
33529	.096 Sq Meter Aurora Pressure Nutsche Filter, 316L S/S, Halar Lined
34423	.096 Aurora Nutsche Filter, 316 S/S
40105	.26 Sq Meter KHS Nutsche Filter, Hastelloy C22
40702	.125 Sq Meter Delta Construction Nutsche Filter Dryer, Hastelloy C22
41716	.005 Sq Meter GL Filtration Nutsche Filter, Hastelloy C22
42154	46" Sweco Nutsche Filter, 316L S/S

Pressure Filters

28470	6.5 Sq Meter Schenk Filter, Hastelloy C22, 150#
28471	6.5 Sq Meter Schenk Filter, 316L S/S, 150#
21239	1.635 Sq Meter Ketema Filtroba Helical Filter, S/S
16002	825 Sq Ft Durco Enzinger Vertical Leaf Pressure Filter



Item: 28865



Item: 28922



Item: 41548



Item: 40493



Item: 29380



Item: 33529



Item: 42154



Item: 28470



Item: 40105



Item: 16002

Filters (cont)

- 26976 100 Sq Ft Filtron Ultra Filtration Unit
- 26962 50 Sq Ft Filtron Ultra Filtration Unit
- 26973 25 Sq Ft Filtron Ultra Filtration Unit**
- 38660 Ketema/Filtroba Filter, Model HF-53
- 15085 R-10 Chemap AG (Funda) Filter, 10 Sq. Meter, S/S

Rotary Vacuum

- 31373 8' X 10' Komline Sanderson Rotary Vacuum Filter, S/S
- 31374 8' X 10' Komline Sanderson Rotary Vacuum Filter, S/S
- 31372 8' X 8' Eimco Rotary Vacuum Filter, S/S
- 32531 6' X 6' Eimco Pre-Coat Rotary Vacuum Filter, 316 S/S**
- 26904 2' X 2' Alar Rotary Vacuum Filter System
- 40722 Bird-Young Rotary Vacuum Filter**
- 43542 Padovan Taylor Rotary Vacuum Filter, S/S

Miscellaneous

- 26326 Osmonics Reverse Osmosis System, Model R8-(2)-6M2-6MIF8-30M2PC
- 35996 Osmonics Reverse Osmosis System, Model 74-B-HR288K/DKXDP**
- 28605 Osmonics Reverse Osmosis System, Model 54A-HR(PA)10K-DLX
- 29626 Ionics DL Water Purification System
- 44028 US Filter Reverse Osmosis System, Model PSHTFC-20-401099H**
- 42993 FRC DAF Unit, Model PCK-3R, S/S
- 33658 AK Robin Universal Hydro-Flow Washer De-Stoner, Model DD
- 34766 30" Vincent Vertical Screw Press
- 34180 18" X 100" Continental Conveyor De-Watering Screw, 304 S/S**

Generators

- 43069 1200 kW Detroit Diesel Genset
- 43573 1000 kW Onan Genset, Model 1000DFID**
- 43410 500 kW Generac Genset
- 44045 400 kW Caterpillar Genset
- 40227 350 kW Kohler Generator, Model 350REOZV**
- 40591 300 kW Kohler Genset, Model 300ROZ91



Item: 26973



Item: 32531



Item: 40722



Item: 35996



Item: 44028



Item: 34180



Item: 43573



Item: 40227

Generators (cont)

- 43412 230 kW Generac Genset
- 42533 200 kW Olympian Genset
- 32788 85 kW Detroit Diesel Genset**
- 42538 50 kW Kohler Genset, Model 50RZ272
- 35156 60 kW Onan Genset, Natural Gas Fired
- 30456 20 kW Generac Genset, 35 KVA
- 41559 20 kW Onan Genset, 25 KVA
- 43423 1000 CFM Gas Atmosphere Inert Gas Generator**
- 43421 1500 CFM Gas AtmosHPere Inert Gas Generator
- 41297 Holtec Pressure Swing Adsorption Nitrogen Generator**
- 40434 Olympian Genset, Model GRH275

Vacuum Pumps

Liquid Ring

- 29625 Dekker Vacuum System
- 28525 Rosenmund Apovac Vacuum System, Hastelloy C22, 15 HP
- 19471 KLHE 47105 Membrane Tech Vacuum System
- 35897 100 HP Duro-Flow Rotary Lobe Blower, Model 7008VE**
- 31746 XL500/7 Nash Vacuum Pump, C/S, 250 HP**
- 29436 CI2002 Nash Vacuum Pump, 100 HP
- 22698 CL3002 Nash Vacuum Pump, 200 HP**
- 22699 CL3003 Nash Vacuum Pump, 200 HP**
- 36438 CL2003 Nash Vacuum Pump, C/S, 125 HP
- 35403 LPHY 70540 SIHI Vacuum Pump, 316 S/S, 25 HP
- 43256 LPHR 55320 SIHI Vacuum System, S/S, 20 HP
- 43257 LPHA 5620 SIHI Vacuum System, S/S, 20 HP

Oil Seal/Dry

- 28839 Rietschle Oil Seal Vacuum Pump System
- 23657 282 CFM Busch Huckepack Vacuum System
- 30508 200 CFM Busch Huckepack Vacuum Pump, Model 433:013
- 30509 200 CFM Busch Huckepack Vacuum Pump, Model 433:013



Item: 32788



Item: 43423



Item: 41297



Item: 29625



Item: 35897



Item: 31746



Item: 22698



Item: 22699

Vacuum Pumps (cont)

39407	262 CFM Busch Cobra Vacuum Pump, Model AC 0400
30502	176 CFM Busch Huckepack Vacuum Pump, Model 433:013
30513	146 CFM Busch Huckepack Vacuum Pump, Model 433:014
23568	125 CFM Busch Monovac Vacuum System
39305	60 CFM Wintek Vacuum Skid, 7.5 HP
39316	60 CFM Wintek Vacuum Skid, 7.5 HP
34418	50 CFM Busch Cobra Vacuum Pump, Model NC0070, 5 HP
34419	50 CFM Busch Cobra Vacuum Pump, Model NC0070, 5 HP
34029	20 HP Rietschje Rotary Vane Vacuum Pump
27388	15 HP Busch Huckepak Vacuum Pump



Item: 39407



Item: 30502



Item: 23568



Item: 39316



Item: 34029



Item: 27388

Federal Equipment Company offers packaging equipment for a wide range of industries. We understand that delivery and budget are critical elements to any equipment purchase. We currently have high-quality packaging equipment available at a fraction of the price and lead time of new equipment.

Representative Sampling of Available Equipment

- 31708** Prewa Form, Fill And Seal Machine, Type 450
- 37709** Douglas Continuous Motion Bottom Load Horizontal Cartoner, Model CM
- 36881** Pester Robotic Palletizer, Model Pewo Form 6



Item: 37709



Item: 31708



Item: 36881

Federal Equipment Company has a complete offering of equipment for the plastics industries. Equipment suitable for a wide range of applications including rubber manufacturing, compounding and extrusion. Additionally, we offer a full range of equipment suitable for plastics and other material recycling operations including shredders, grinders, granulation, and cutting equipment.

Representative Sampling of Available Equipment

- 39835** 100 mm Davis-Standard Extruder, 26:1 L/D, 60 HP AC
- 39836** 100 mm Davis-Standard Extruder 26:1 L/D, 60 HP AC
- 39837** 100 mm Davis-Standard Extruder, 26:1 L/D, 75 HP DC
- 39842** 1.5" Davis-Standard Extruder, 30:1 L/D, 10 HP DC



Item: 39835



Item: 39836



Item: 39837



Item: 39842

Pharmaceutical Industries

For more than 50 years, Federal Equipment Company has specialized in providing high quality, used process and packaging equipment to an array of industries.

Our Pharmaceutical Issue is designed for the equipment needs of the following manufacturing industries:

- Pharmaceuticals
- Generic Drugs
- Pharmaceutical Contract Manufacturing Organizations (CMOs)
- Vitamins
- Nutraceuticals and Supplements
- Cosmetics and Fragrances
- Biopharmaceuticals and Biosimilars
- Beverages
- Foods and Candies



Federal Equipment's inventory is a one-stop-shop for manufacturing equipment. We stock all of the equipment required to set up a complete manufacturing operation for the following products and packaging:

- Solid Doses – tablets, soft capsules, hard capsules, pellets, powders, and more
- Liquid Doses – solutions, suspensions, emulsions, and more
- Semi-Solids – creams, ointments, and lotions
- Transdermal Patches
- Aseptic Fill & Finish – vials, ampules, syringes, blow-fill-seal, sockets, and more
- Primary Packaging – blisters, bottles, pouches, bags, flow-wraps, tubes and more
- Secondary Packaging – cartoners, shrink-wrappers, tray packers, case packers, taping, labeling, neck-banders, cottoners, and more

Federal Equipment's inventory changes daily. This issue reflects only a portion of the 1,000's of items available. If you do not see the equipment you need, try our website (www.fedequip.com) or call a sales associate (800-652-2466) for assistance. Even if we do not have it in our current inventory, we can use our extensive network to help source your next piece of process or packaging equipment.



Investment Recovery Overview

Strategically Managing Surplus Capital Assets.

Federal Equipment provides solutions for redeploying and/or re-marketing surplus assets. Investment recovery often includes sourcing quality pre-owned equipment. This allows organizations to decrease capital spending while increasing a new product's speed to market because production equipment can be acquired more quickly through surplus equipment resources.

By maintaining strategic partnerships with organizations, such as Pfizer Inc., in which we manage surplus equipment and provide solutions for their excess equipment assets via our expert sales, marketing, maintenance, rigging, and appraisal staff, we can ensure maximum return on investment.



Associated Services

Negotiated Liquidation Services. We purchase single items, complete process lines, or entire manufacturing plants. We pay the most competitive rates for used equipment and resell it quickly, provide rigging, dismantling, and transportation services, and manage the surplus equipment. We make selling your equipment easy by taking care of all the details.

Client Specific Intranet Sites. We can provide a multi-tiered, password protected Intranet listing portal for inter-company asset allocation, particularly valuable to organizations with multiple locations and complex equipment management requirements.

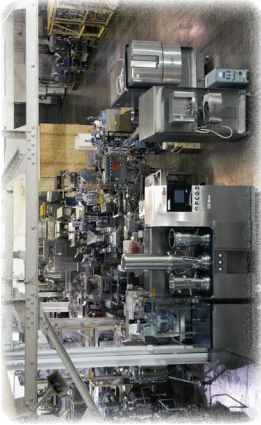
Custom Inventory/Sales Software. We use a web-based inventory/sales management system that provides access to customer and equipment data instantaneously, allowing our team to quickly answer inquiries, provide timely quotations, and ensure your equipment sells quickly.

Marketing. A strategic marketing plan is essential to the success of liquidation deals. Our in-house marketing services provide integrated marketing campaigns that include:

- SEM (Search engine optimization, keyword advertising, PPC)
- Website advertising (banner ads, placed editorial, links)
- Email marketing
- Trade show marketing
- Direct mail
- Trade publication display and classified advertising

Throughout, Text In Bold And Blue Pertains To Machines That Have Images

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8200 Bessemer, Cleveland, Ohio 44111



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