

**Nashua Corporation - Merrimack, NH Facility  
Toner Manufacturing Equipment - Description**

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>	Age	Service yrs
<b>Mixer Skid #1 - (Complete portable mixer line)</b>				380V, ~100 kW, 160A		
<b>Preblender</b>						
FM500 L Henschel high intensity blender (bought used)	Henschel	FM500F (115JSS)	830720	96/48 HP 2-speed motor	1996	8
5 SS transport bins for loading / unloading batches	General			4'x4' 8,000# capacity weigh deck	1996	8
1 high capacity platform scale for weighing major ingredients	General	GE600		floor scale indicator	1996	8
1 low capacity floor scale for weighing minor ingredients	General	UBS402		Universal Bench Scale - 100# capacity	1996	8
Integrated platform for bin loading/unloading					1996	8
Vibratory screener to capture tramp metal at the henschel discharge	Midwestern	55-A			2004	1
<b>Extruder</b>						
Buss PR70-12D kneader	Buss	PR70-12D	45163	45kW w/ variable frequency drive, H2-R20 gear box, 300C mc	1996	8
3 zones heating/cooling						
70mm shaft - 12:1 L/D						
K tron T 35 feeder	K-Tron	T-35	10219195/260300	0.45kW, twin screw volumetric feeder	1996	8
ELS feeder for extruder	ASS	M63F	959419	ELS 70 feeder, 0.75kW		
Regoplas Heating/cooling units - extruder temp control	Regloplas	R300/20/FM30/2K/RT45	542112	21.6 Kw rated (18 kW heating, 90 kW cooling capacity)	1996	8
Regoplas Heating/cooling units - extruder temp control	Regloplas	R300/20/FM30/2K/RT45	542113	21.6 Kw rated (18 kW heating, 90 kW cooling capacity)	1996	8
Regoplas Heating/cooling units - extruder temp control	Regloplas	R300/20/FM30/2K/RT45	542114	21.6 Kw rated (18 kW heating, 90 kW cooling capacity)	1996	8
Control panel				SAIA PC6 w/ 255 inputs and outputs, process status display	1996	8
PLC controls fully integrated				3 operating modes (automatic, semiautomatic, manual)		
Outstanding alarm and control information						
Many of the controls are analog						
Overview panel					1996	8
Lights indicate acceptable / warning conditions at a glance						
Elfotec integrated small foot print cooling belt	Elfotec			380V, 3.35A, 1420 rpm, 1.5 kW, Belt: Type HNB-8E Polyester	1996	8
Rotoplex 16/32 crusher unit	Alpine	16/32		4 kW,180 rpm mill speed, direct drive w/clutch	1996	8
Pneumatic conveying unit to convey chips from the crusher				3kW vacuum blower	1996	8
Filter Unit	ANAG	F 601-1.5	333255	Conductive PTFE filter bags		
Rotary Valve airlock	Westinghouse	AL-150-1D	951863	Rotary Valve - 0.25 kW	1996	8
Carrier chiller - skids 1&2	Carrier	30GT020-610	3496F24460	20 ton chilled water	1996	8

Nashua Corporation - Merrimack, NH Facility  
 Toner Manufacturing Equipment - Description

Manufacturer

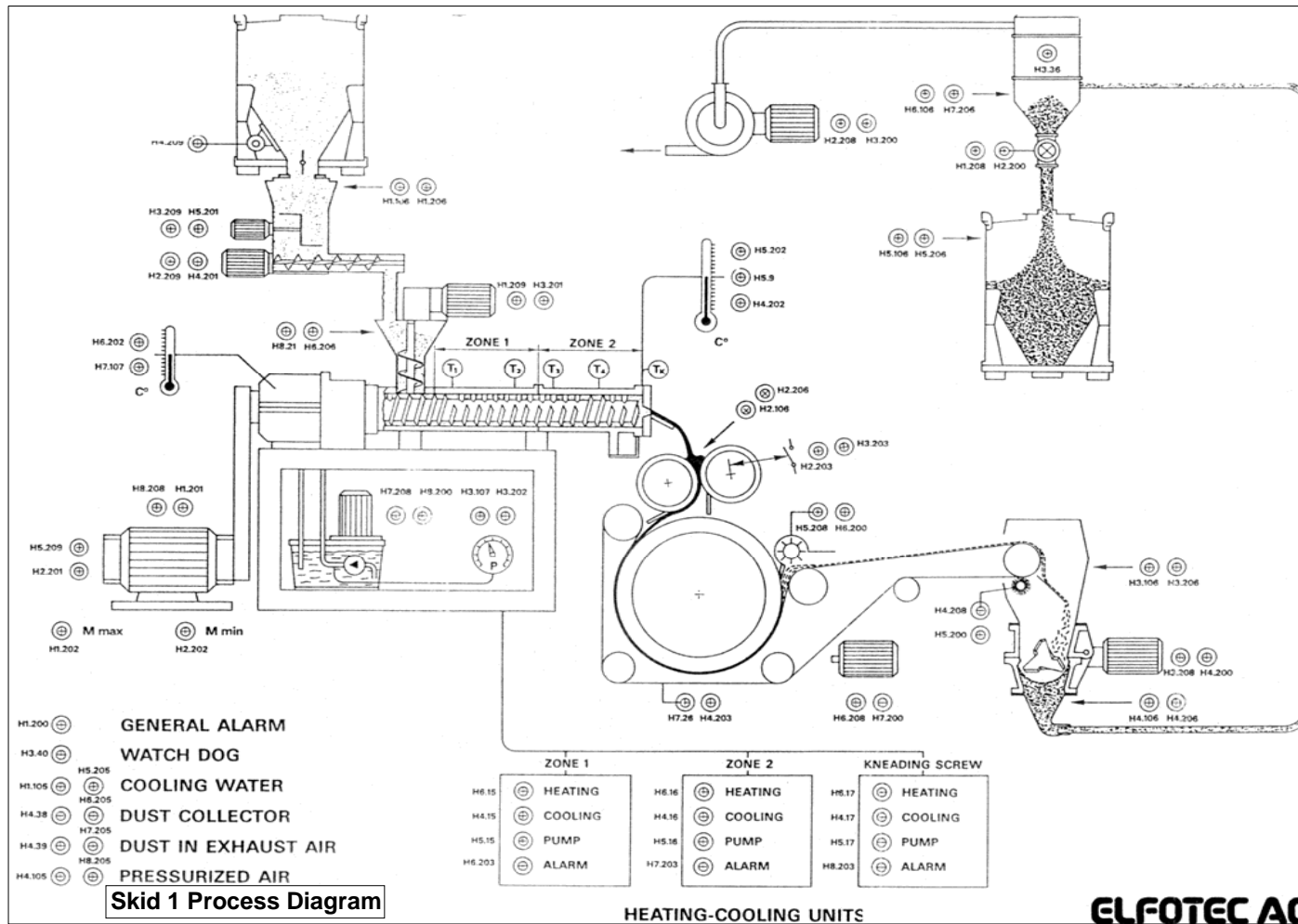
Model #

Serial #

Comments

Age

Service yrs



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	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>	Age	Service yrs
<b>Mfg Area 5 - Skid #2 (Completely portable toner grind / classify / post blend line)</b>						
<b>Grinding System (size reduction to 6um)</b>						
Alpine 400 AFG fluidized bed jet mill	Alpine	400AFG-2	30340/1	380V, ~100 kW, 160A 10 bar, 7.5 kW, 3000 rpm drive, 200/95 pulley ratio, 200 mm c	1996	8
Rinsing air supply	Siemens	2BH 1400-1AE14		1.75 kW blower w/Brunner 100 m3/hr cooling coil		
Ktron S-200 screw feeder	K-Tron	T-35	10219195/266030	volumetric feeder	1996	8
Rotary Valve airlock	Alpine	ZSA200	11910	Rotary Valve - 0.25 kW	1996	8
Alpine NAZ 400 Cyclone	Alpine	NAZ400	30340	10 bar, 1200 m3/hr flow rating	1996	8
(5) stainless steel transport bins					1996	8
Alpine AR28L Filter bag house - used for both grind/classify lines	MikroPul	DAR28L TRL PSR 11	210338283	24.5 m2 antistatic Goretex filter mat'l, 10 bar rated, Outlet prot	1996	8
70 HP centrifugal blower - dual wheels	Stafa Witz Ventilator	DHTM 15.17 BLS/BRS	201506A	<a href="#">25kW, 2500Nm3/hr @ 280 mbar vacuum, w/Brunner 600 m3/hr coc</a>	1996	8
<b>Fines Classification (air classifier - small particle removal)</b>						
Alpine ATP200 Air Classifier	Alpine	200ATP - S/GS	30340/2	7.5 kW, 3000 rpm, 200/95 pulley ratio, 10 bar, Ventex valve or	1996	8
Discharge Rotary Valve	Alpine	ZS-A 200-AZ		3 l/rev, 220/380V		
Alpine NAZ 500 Cyclone	Alpine	NAZ 500	30340	10 bar, 1600 m3/hr flow rating	1996	8
Material discharge valves	Warex			w/Air Torque pneumatic actuators		
<b>In-Line Post Additive (surface) Blending</b>						
Ktron S-200 loss in weigh feeder for post adds	K-Tron	S-200	10219195/265990	"A" scale, 0.45 kW twin screw feeder	1996	8
Ktron LWF-D5-S loss in weigh scale	K-Tron	LWF-D5-S	10219195/265960	Loss in weigh scale	1996	8
Ktron T-20 feeder to refill scale B feeder	K-Tron	S-200	10198296/432140	Feed to "B" scale feeder, single screw	1996	8
Ktron S-200 loss in weigh feeder for post adds	K-Tron	T-20	10219195/266000	"B" scale, 0.45 kW twin screw feeder	1996	8
Ktron LWF-D5-S loss in weigh scale	K-Tron	LWF-D5-S	10219195/265970	Loss in weigh scale	1996	8
Ktron T-20 loss in weigh feeder for toner	K-Tron	T-20	10219195/266010	"C" scale, 0.45 kW single screw feeder	1996	8
Ktron LWF-D5-S loss in weigh scale	K-Tron	LWF-D5-S	10219195/265980	Loss in weigh scale	1996	8
FM 40D (40L) henschel blender	Henschel	FM-40D	845207	2 speed (1500/3000 rpm), 6.8/8 kW, air rinsing for bearing, w/ Provided w/Rittal SK 3393 cooler	1996	8
Control panel				SAIA PC 6 w/255 inputs & outputs 3 operating modes (automatic, semiautomatic, manual)		1996
PLC controls fully integrated						
Outstanding alarm and control information						
Many of the controls are analog						
Ventx Explosion Isolation Valve - Grinding		VENTX	A/N/P1	0305.377.2		1996
Ventx Explosion Isolation Valve - Classification		VENTX	A/N/S4	0305.377.1		1996
Overview panel						1996
Lights indicate acceptable / warning conditions at a glance						
<b>Coarse Classification (air classifier - large particle removal)</b>						
Ktron T35 screw feeder	K-Tron	T-35	10198296/266020		1996	8
AZO E360 rotary sieve	AZO	E360		145 mesh screen, 0.75 kW	1996	8
Toldeo platform scale (2)	Toledo	8142		Product & Fines scales	1996	8
High Capacity Digital Platform scale					1996	8



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	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>	Age	Service yrs
<b>Whirl Air Flow Ingredient Automatic Batching and Handling Unit</b>						
(5) ss hoppers with bag breakers and dust collection					1999	6
(2) bag lifters to assist handling of drums and bags					1999	6
(5) load cells to dispense ingredients into the proper order					1999	6
(2) collectors cyclone tanks use dot collect the ingredients					1999	6
Platform scale to verify the weight of the ingredients at the end of the batch					1999	6
PLC and control system to facilitate process					1999	6
Transport blower	Sutorbilt	GAFMDPA-6MP	S046302	40 HP	1999	6
Collector and blower to be used for dust collection	Cincinnati	RBE-13	9911157	15 HP blower	1999	6
	Wm Meyer & Sons	Rotofit	10x10HD	1-1/2HP rotary vlv for WAF	1999	6
<b>Peripheral Equipment</b>						
Kaeser FS 400 flooded screw air compressor (~1000cfm @ 150psig)	Kaeser	FS400	361180	1400scfm@145psig	1996	8
Kaeser KRD 1200 air dryer	Kaeser	KRD-120	0369-21CS-9508-1K	1200scfm@100psig, R-22, 460V/10.2A	1996	8
	Kaeser	FCS-1320	3408-7-9609-36K	Centrifugal Separator	1996	8
	Kaeser	ORF-1400	1310-3-9609-31K & - 32K	Oil Removal Filter (2)	1996	8
	Kaeser	OME-1500	HI545020001001-1K & -2K	Oil Mist Eliminator (2)	1996	8
	Kaeser	CMS-1060		Oil Separator	1996	8
Ingersol rand centrifugal compressor (90psig - 50HP)	Ingersol-Rand	SSR-EP50	F3589U91	198cfm@125psig, 50 HP/460V	~1990	115
Ingersol Rand air dryer	Ingersol-Rand	HG550	881HG675C	air dryer - 460V/8A, R-22	1988	10
Ingersol-Rand 30 HP compressed air system	Ingersol-Rand	SSR-EP30SE	JE2092U95336	30 HP, 127cfm@125psig	~1994	11
	Zeks	150NCCA400	96384-1	R-22, 460V/4.6A	~1994	11
2 Nuisance dust collectors (1000? Sf surface area) with blowers	Aerovent	22MH-AWARR9R CL SD Blow	96-318008-1-1	15HP blower - 4,000cfm@10"WG	1996	8
	Mikro-Pulsaire	365.8.30	71H1275			
	Sta-Clean Diffuser	8x8HD		3/4HP rotary vlv for Mikro-Pulsaire	1996	8
	New York Blower	18PLR	UO8516	20 HP blower-	1996	8
	DCE	DLM1/4/15	00-1056		2000	5
	Wm Meyer & Sons	Rotofit	8x8HD	1 HP rotary vlv for DCE	2000	5
2 Spencer vacuum systems	Spencer		7015	304283 Blower - 15 HP, 400 scfm@7"Hg	~1980	22
	Spencer		304283A	Tubular Bag Separator	~1980	22
	Spencer		304283B	Tubular Bag Separator	~1980	22
	Spencer	24105A1		313180 15HP blower - 400scfm@5.1"Hg	~1990	14
	Donaldson/Torit	2DF4	IG075934	collector	~1991	14
	Wm Meyer & Sons	Rotofit	8x8HD	rotary vlv for Torit	~1991	14
	Sutorbilt	6MP		40 HP blower-550 cfm@6"Hg	1999	
Stretch Wrapper	Mima		2362	115V/15A w/turntable	2001	4
Sandblaster	Empire	PF-3648		300		
Platform Lift	ECO Lift	HLD-120-612-F		6'x12', 12,000# cap	1997	8
<b>Fines compactor unit - to compress fines for better feeding into the extruder</b>					2003	2
Hydraulic Drum dumper to feed fines into the feeder hopper	NBE					
Screw Feeder to feed fines into compactor	Colortronic, AG	CT65	03H4129-1009	750# capacity	2003	2
Compactor unit that compresses fines into a block					2003	2
Crusher that disintegrates fines into small chunks	Alpine	15/24ECO	R1134822		2003	2
Pneumatic conveying apparatus to compacted fines to the collection tank					2003	2

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**Mfg Area 3 (Complete toner line)**

**Alpine 800/3 AFG fluidized bed jet mill on load cells**

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>
Alpine 800/3 AFG fluidized bed jet mill on load cells	Alpine	AFG 800/3		Grind to 6um, 4000 rpm max, stability to +/- 3rpm, 480V, 5600m3/4 nozzles, 33kW, Model 315 Turboplex Ultrafine Classifier wheels
Compressed air control valve with controls				
Integrated control panel w/ touch screen and PLC for the mill system				
8" Leslie valve for compressed air control	Leslie			
3" Leslie back pressure regulator	Leslie	Class ULHKY		
3 Classifier wheels with 37 kW motors - speed range				
Blower for mill gap air w/motor and cooling coil	Brunner		11-167	6 bar, 2000m3/hr
200 hp centrifugal blower (buffalo blower)	Buffalo Forge	85-3.5N type R SWSI	6272	14,000 cfm @ 60" WG, 200 HP, 57-3/4" wheel, 190 BHP, 1780 rp
Fisher Klostermann Collector (3000 bag surface area)	Fisher Klosterman	FK 9319	17590	318 - 4-1/2" dia x 8' bags
Fisher Klostermann Quad Fines Cyclone	Fisher Klosterman	XO120-12-4-A/B/C/D	17591A/B/C/D	
Fisher Klostermann Transfer Cyclone	Fisher Klosterman	XO120-5	17591	
SS Interconnecting piping - various sizes				
<b>Supersack feed station to 1600 kg capacity</b>				
Supersack electric hoist - 1600 kg capacity				1600 kg capacity w/electric trolley
Supersack station trolley and frame to hold 1600 kg	Hecht	BE	A06424	
SS Holding tank ~ 5cf capacity				
Rotary valve feeder w/variable speed drive	DMN Westinghouse	AL-150-LD	00-3018	
<b>Fines classification system</b>				
CVU-5000 operator interface w/TI-545 PLC				
Fisher Klostermann Quad Fines Cyclone	Fisher Klosterman	XO120-9-4/1/2/3/4	16178/1/2/3/4	
Fines collector				
Donaldson C-24 Classifiers (2) (15HP with VSD)	Donaldson	C-24		15 HP w/series P5 IDM Controls VSD
Vac-U-Max pump-up system	Vac-U-Max			16" unit w/high hat & pneumatic blower
K-tron T80 eeder with 20 cf hopper and agitator	K-Tron	T80	T80-91-010-F1	15 HP
	K-Tron	T60	T60-1-17-2-13-12-X	1600 l/hr @1800 rpm, 187 rpm screw speed w/ agitator
Donaldson coarse fraction separator (cyclone)				
Rotary valve air lock	Smoot	43-11		Rotary Vlv
MD Pneumatics (200HP) PD Blower	Tuthill	1224-86R2-6159		200 HP
<b>Coarse classification system</b>				
MS-3 Micron Powder Systems micron separator - coarse classifier	Micron Separator	MS-3		
Micropul Product Collector (~2000 sf surface area)	Mikro-Pulsaire	1F2241	72H985	
Fisher Klostermann Dual Cyclones (~2000 cfm, 1000 each)	Fisher Klosterman	XO120-7.5-2A/2B	17591A/B	
20 HP Centrifugal Blower	Buffalo Forge	6E	P-7579	21" wheel, 20 HP
Platform scale (3X3)				3'x3' deck
Platform scale (4X4)	Mettler Toledo			4'x4' deck, 2,000# capacity

**Nashua Corporation - Nashua, NH Facility  
Toner Manufacturing Equipment - Description**

**Mfg Area 4 (Complete toner line)**

**Grinding System (size reduction to 6um)**

GE Cimplicity operator interface w/TI-545 PLC  
 Condux CGS 71 fluidized bed jet mill on load cell  
 Fisher Klostermann dual cyclones (SS)  
 Fisher Klostermann Grinder Collector (~1000 sq ft surface area)  
 Accurate feeder to mill  
 Cinncinnati centrifugal blower  
 NBE bulk bag unloading station  
 Electric hoist/trolley  
 4" Leslie valve for compressed air control  
 Nuisance Dust Collector

<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>
Condux	CGS-71	BA-1187	1900 m3/hr @ 6 bar, 12.8 mm nozzles, 10 bar design, max speed
Fisher Klosterman	XO120-6.5		
Fisher Klosterman	FKB-60-470-8	18368	
Accurate			volumetric w/ ext hopper
Cinncinnati	12F26	N/A	30 HP
NBE			
Shaw Box Series 800 BOLO 1/2025S1612000		L480287	1,000# capacity, MDT Trolley, hoist - 16 fpm, trolley - 75 fpm
Leslie			
Fisher Klosterman	FKB-48-248-7	9455	30 - 4-1/2" dia x 84" lg bags

**Fines Classification (air classifier - small particle removal)**

Condux CFS 85 Classifier  
 Fines Collector - cartridge type  
 Tuthill positive displacement blower  
 Donaldson Coarse fraction separator (cyclone)

Netzsch	CFS-85/HD-S	6596	10 HP
Tuthill	5518-46L3		75 HP

**In line post additive (surface) blending**

Henschel 150 L high intensity mixer  
 Accurate toner feeder  
 Accurate post add feeder  
 High capacity Floor scale

Henschel-Prodex	35JSS	820787	32/16 HP, 3600 RPM, 8/19 (mtr/driven) sheave ratio
Accurate			loss in weigh, toner w/300# scale, Hardy HI 2151/20WC weight cc
Accurate			2 loss in weigh, post add w/44# scale
Mettler Toledo			

**Coarse Classification**

Russell - Finex ultrasonic sieve (36")  
 Micro Pulseaire dust collector  
 Buffalo dust collector blower

Russell-Finex	17900 - Compact 111	JT280	230/460V 1800 RPM vibratory sieving motor, 400 mesh screens
Micro-Pulseaire	36S.8.30	71H1274	
Buffalo Forge	4RE	S1081	20 HP, 1500 cfm @ 44"WG, 3550 rpm, 17.7 BHP

**Nashua Corporation - Nashua, NH Facility  
Toner Manufacturing Equipment - Description**

**Baker Perkins Extrusion Process**

**Baker Perkins counter rotating twin screw extruder**

100 mm shaft  
10:1 L/D  
Oil heated jacket  
Feed zone cooled by tower/chilled water

4 zone hot oil system for extruders & die

Hot oil pumps (4)  
cooling heat exchanger (4)  
Electric heating unit (4)  
Electric heating unit (auxiliary)

**Pre-blend system**

Drum vacuum lift w/trolley rail system  
100 cf Gemco cone blender with high speed agitator  
Live bottom bin and tank  
K-Tron Feeder  
Deck scale

**Toner pelletizing system**

Cross head extruder - convey toner to heated die face

Hardened die

Quench water

Cooling water pump  
Duplex basket filter  
Heat exchanger

Gala forced air pelletizer dryer

Pellet conveying system

MD Pneumatics PD blower  
whitlock bag house

Pellet discharge station

Diaphragm pumps (3)

Diaphragm pump

Drum scale

Duplex bag filter

Midwestern 36" vibratory sieve

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>
Baker Perkins	Baker Perkins			125 HP D-C
Chromalox	Chromalox			Magnetic drive 15 Kw each
Chromalox	Chromalox			7.5 Kw
Gemco	Gemco	10 ft3	34678	
K-Tron	K-Tron	T-60		
Toledo	Toledo			250# cap 10 HP
Peerless	Peerless			20 HP
Andale	Andale	11541		
Young Ind	Young Ind			
Gala	Gala	6SMUP	830928	
Tuthill	Tuthill	4009-17T3	3074R1-F97	15 HP
Wilden	Wilden	M15		3 units available
Wilden	Wilden	M8		
Mettler Toledo	Mettler Toledo	2888		30"x30", 1000# cap, 8525 controller
Diversa Flow	Diversa Flow	L88302FAC15-2-2F-C-DF		Duplex bag filter unit w/baskets
Midwestern	Midwestern	DCW-1160		

**Nashua Corporation - Nashua, NH Facility  
Toner Manufacturing Equipment - Description**

**Developer Manufacturing Equipment**

**Gemco resin deposition coater/blender (10cf?)**

Various pumps and color mix tanks to dispense solvent based resin solutions  
Vac-U- Max air conveying system to load steel shot into the gemco  
PLC and operator interface to control the process  
Oil heated jacket with temperature control

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>
	Gemco	VD-85046		5 ft3 double cone formulator
	Vac-U-Max	MDL 105017-02	177865	Pump-up core to feed coater
	Kontro	H30M 3/5		5HP, 460V, 3450 rpm, 45 gpm@66 ft hot oil pump
	Warren	XGF-6-460-30-S		9 - 6 kW, 460V. In banks of 3 electric oil heaters
Liquid injected coating capability			U505-166	
Solvent Recovery System, including vacuum pump & heat exchanger			2954 733, stock# 90307-1/2HP, 460V, 1800 rpm, 28" Hg liquid ring vacuum pump	
Vacuum Pump	SIHI	LPHY 3708 BN 999022		
Heat Exchanger	American Standard	type 06048		2 pass, 46 ft@ surface area
10 gal solvent recovery system				
<b>Ascoat fluidized bed coater</b>	Coating Place	12"/18"		Blower - 100 scfm@54"WG, 16-8' bags (150 ft2)
Various mix tanks and pumps to dispense the solvent based resin solutions				
Carts for loading and unloading the coater (2)				
Independent control panel				
<b>Harper 12 inch rotary tube furnace</b>	Harper	NS-13D72-RTA-WC-10	AK024	36Kw, 1000F max temp, 45A, 460V, 36kVA xformer (460-230V)
Feeder used to feed material into the tube furnace	Acrison	HM01262-759119	287	3/4 HP, Part# 2070G6851D, Class I motor
Integrated control system				
Rotary airlock discharge	Wm W Meyer & Sons,	6x6 HD Roto-flo		6 vane, 1/2 HP, 1800 rpm
<b>Harper 6 inch rotary tube furnace</b>	Harper	NE4D60-RT-20	FJ00064	1090C max temp
4 & 6" tubes available (4" tube in unit)				
Feeder used to feed material into the tube furnace	Acrison	101-BB/2	99425-01	1/2 HP VSD, 3 ft3 hopper
Integrated control system				
<b>Munson tumble blender - bin load - 10 cf</b>	Munson	TH-17-SS	10060	10 HP, 230/460V TEXP mtr, Reeves Drive, 4.2-16.8 blender rpm
<b>Munson tumble blender with controls - 3 cf</b>	Munson	MX-3 SS Mina Mixer		1 HP
<b>Littleford plow blender with controls - 5-10 cf</b>	Littleford	FM-130-D	20181-3175	10 HP, 7-1/2 HP chopper, 480V, 75 psig/320F working pressure
Discharge portasifter (24")	Midwestern			
<b>10 Carbon Steel bins used to transfer materials</b>				
<b>Midwestern 48" multideck vibratory sieve with various screen sizes</b>	Midwestern	ME48S8-8-8	0881-4065	3 HP/480V
Screw feeder to control feed rate	Vibra Screw		725-4	1/2 HP Reeves drive
Bin load / unload station				
<b>Sweco 18" multideck vibratory sieve with various screen sizes</b>	Sweco	LS24S444	1S24-1077-27	1/3 HP/220V motion generator
Vibratory feeder to control feed rate	FMC	BF2A		Vibrating feeder
Bin load / unload station				
Various material handling and dust collection equipment				
Tubar drum dumper	Tubar	TC	D-8775	3000# capacity, 3 HP, 220V hydraulic pump
(2) 4X6 floor scales	Emery	WP-7986	13866	5000# capacity
	Emery	Series 707		low profile floor scale w/2' ramp
Drum Crusher	Ram Flat	7000		
Micro Pulsaire nuisance dust collector	Micro-Pulsaire	16S.6.30	67H502	
Spencer vacuum collector w/blower	Spencer	S-189	303273	7-1/2 HP, 225 scfm@5"Hg
Torit collector w/bench scale & flow hood	Torit	TD-486-H-55		3 HP, 3450 rpm, 230/460V, 950 cfm, 486 ft2 filter area, bag rating
Ram Flat Drum Compactor	Ram Flat	55AR	O5524RFG	38" high x 32-1/2" dia cap., 85,000# ram press, 10 HP, 460/230V
Color Room Exhaust Fan	Buffalo Forge	type BL, size 300II, Arr 2, type C spark resistant		10 HP spark resistant

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<b>Off Line toner post additive blending system</b>				
<b>500 L Henschel high intensity blender</b>				
Collector used to convey toner to the henschel	Henschel	FM-500B		92/46 HP rated, 1800/900 rpm, 11/22 drive ratio, 480V
	Young Industries	HW36-25	HW3956	Uni-Cage Filter MI, 25 style D bags, 3ft lgth, 98 ft2 filter area, 18.3 24" Fike type CV-S, SST/TeflonSST, 1.5psig +/- 0.5 psig burst rat
MD Pneumatics positive displacement blower	Tuthill	4009-46L3	7300R1-F01	
(2) Toledo scales used to suck up and discharge toner	Toledo	2885 low profile deckmate		30" sq, 1,000# cap, M8141WS digital indicators
Porta-sifter	Midwestern	55-A	4938	
PLC and various controls for the system				
<b>Sweco 21" turbo sifter system</b>				
Turbosifter	Sweco	TS-18	TS18-476-1	Turbo screen classifier, 3 HP, 100-2600 rpm, 15-35 scfm@30-90
Feeder	Accurate			volumetric w/extension hopper
Vac-U-mac	Vac-U-Max			11" w/pneumatic blower
Cyclone	Fisher-Klosterman	XO120-6	18411	Cyclone
<b>Peripheral Equipment</b>				
<b>Ingersol Rand C-90 centrifugal multi stage comp (8000 cfm @150psig)</b>				
Starter	Ingersol Rand	3C90M4	M86-3769	9021 icfm@150 psig, 2250 HP/4160V, 282A
C-90 Dryer system	Westinghouse	Class 11-602 50L4 Ampguard		Motor Starter w/disconnect 4160V
C-90 4160V Transformer	Ingersol Rand	RDX25/400786TFS	030-32326	40HP/460V, R-22, NB# 1318, NH ID# 7745, 175 psi, 34 KW, 39F
	GE	34500GRDY/19920-4160Y/2400	PO17160	2000 KVA - 34KV/4160V
<b>Ingersol Rand C-40 centrifugal multi stage comp (4000 cfm @110psig)</b>				
C-40 air Dryer system	Ingersol Rand	2C40M4	M76-1046	
C-40 Expansion Tank	Zurn	800R-1230W	R-7826	3,700cfm, 460V/46.6A, R-22, NB# 9931, NH ID# 16733, 150 psi
C-40 Moisture Separator	Zurn	NB# 22266	NH ID# 16734	150 psi
<b>Atlas Copco screw compressor - auto cycle (1800 cfm @100psig)</b>				
Refrigerant air dryer	Atlas-Copco	ZR5-62	ARP610423	450HP/4160V, water cooled, oil free screw
Expansion Tank	Wilkerson	A17-HH-PWO	07-27-92-8260	2000 scfm@39F, R-22, 480V/45A, water cooled
Starter	Brunner	NB# 3284F	NH ID# 16738	150 psi
	Westinghouse	Style# 2121A13G01	Type LF-50H430	5 kV reduced voltage starter (4160V)
<b>Evapco cooling tower</b>				
Cooling Water Circulating Pumps - 2	EVAPCO	AT12-712A	928580	1230 gpm @ 95/85/78, 20 HP, 2 speed, 460V TEAO
Sandfilter for water treatment	Peerless	10MA-5STG	TI51135	40 HP/600gpm@208ft WG
<b>Marley model 222-611 cooling tower w / 25 hp fans and 15 &amp; 20 HP pumps</b>				
Cooling tower pump	Marley	222-611	222-611-1-1471-89	1700 gpm @ 98.5/86/75
Cooling water circulating pump	Peerless	10MA-2STG	439853	15 HP, 1700 gpm@23 ft, 14HH bowl, 10x10x16-1/2, 1200 rpm, 4f
Sandfilter for water treatment	Peerless	10MA-2STG	439852	20 HP, 600 gpm@81 ft, 10MA bowl, 6x6x12, 1800 rpm, 460V
Sump Tank		11' ID x 9' ht		6400 gal capacity w/ drain
<b>Marley model 222-611 cooling tower w / 25 hp fans and 2-75 HP pumps</b>				
Cooling water pumps	Marley	222-611		1512 gpm @ 101/86/75
Sandfilter for water treatment	Peerless	10MA-10STG	ET17124 & W117124	8x8x16-1/2, 600gpm@330ft
Sump Tank		11' ID x 9' ht		6400 gal capacity w/ drain
<b>Roof mounted chiller for mfg</b>				
Chiller Pump	Carrier	30GT-040-600KVA	4493F71683	460V/100A, R-22
Chilled Water circulating pump				
<b>Chiller for Gemco &amp; R&amp;D</b>				
Circulating water pumps	York	LCH10V-45R	YCRM077037	R-22, water cooled, 460V/22A
	Aurora	344A-BF		2 - 7-1/2 HP pumps

**Nashua Corporation - Nashua, NH Facility  
Toner Manufacturing Equipment - Description**

**Mfg Area 2 (Complete toner grind / classify system)**

**Grinding System (size reduction to 9um)**

Donaldson Size 7-10 Majac Opposed Jet mill

Hoffman centrifugal Blower (100HP)

Vibrascrew Feeders with feed tank

40 HP NY (NW 24d) Blower for conveying toner

Mikro-Pulsaire - 100S 820 bag house - ~2000? sf surface area

Mikro-Pulsaire - 64S 820 bag house - ~1000? sf surface area

Buffalo Forge Blower

Mikro-Pulsaire - type 163 bag house - ~1000? sf surface area

**Fines Classification (air classifier - small particle removal)**

Pre-class tank w/ live bottom bin

Donaldson B-18 Air Classifier

Donaldson B-18 Air Classifier

Vibrascrew feeder

Donaldson Coarse fraction separator (cyclone)

MD Pneumatics (17-5509) (40HP) PD Blower

Micro Pulsaire 36" diameter bag house w / 8 ft bags

**Coarse Classification (air classifier - large particle removal)**

MS-3 Micron Powder Systems Coarse Classifier

Mikro-Pulsaire - 100S 820 bag house - ~2000? sf surface area

Buffalo blower - 5e/6e?

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>
	Majac	7-10	226	30 HP
	Hoffman	75105A	788016	100 HP/25 psig
	Vibrascrew		771200	1/3 HP GE Polydyne drive, w/10'x6'x6' hopper
	New York Blower	NW24D		40 HP/3550 rpm, 3800 cfm@42"WG
	Mikro-Pulsaire	100S.8.20	68H493	Post-Majac Collector
	Mikro-Pulsaire	64S.8.20	68H840	Nuisance Dust Collector
	Buffalo Forge	5E	K-6967F	18-1/4" wheel, 7.5 HP
	Mikro-Pulsaire	1.C.4	68H300	Product Collector
	Donaldson	B-18	18-12017 ACUCUT	2 HP Reeves drive
	Donaldson	B-18	18-12010	2 HP Reeves drive
	Vibrascrew		751889	1/2 HP Reeves drive
	Tuthill	5509-17T3		40 HP/1800 rpm, 600 cfm@15"Hg Fines Collector
	Micron Separator	MS3	68N491	5 HP
	Mikro-Pulsaire	type 163	68H494	Coarse Collector
	Buffalo Forge	6E	K-6978	27" wheel

**Nashua Corporation****Toner Analytical Equipment - Description**

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>
<b>Microscopes</b>			
MK Nikon Optical Microscope	Nikon		
MK LEITZ ORTHOPLAN Optical Microscope			
MK ZEISS Optical Microscope			
<b>QA Testing Instruments - Toner</b>			
MK MICR Qualifier		Model GTX	
<b>Elemental Analyzers</b>			
MK Perkin Elmer AA	Perkin Elmer	AAAnalyst 300	S/N 04150010301
MK Perkin Elmer UV/Vis			
<b>Thermal Analyzers</b>			
MK Perkin Elmer DSC-7	Perkin Elmer	DSC-7	
MK Perkin Elmer DSC-7 w/DPA Attachment	Perkin Elmer		
MK Shimadzu Flowtester		CFT-500A	
<b>Miscellaneous</b>			
MK Perkin Elmer FTIR	Perkin Elmer	1600 Series	
MK HP Gas Chromatograph		5890	S/N 2643A11815
MK Polaroid MP4			
MK Dionex 2020i Ion Chromatograph		Model 2020i	
MK Nanopure DI water system by Barnstead			
<b>Analytical Balances</b>			
MK Sauter		Model RE1614	
19-2 Ainsworth		Model AA-250	
<b>Testing Equipment</b>			
19-2 Coulter Multisizer	Coulter	Model IIE	
19-2 Tininus Olsen Extrusion Plastometer			
19-2 Genrad Digibridge			
19-2 Carver Press - Use with Digibridge			
Dev Q/M cage with Keithley Electrometer			
Dev Resistivity testers			
<b>Ovens</b>			
MK Fisher Scientific furnace			
MK Blue M Oven			
<b>Copier test equipment</b>			
MK Temperature / Humidity Chamber			

**Nashua Corporation**  
**Toner Lab Equipment - Description**

**Manufacturer**

**Model #**

**Serial #**

**Various Lab Equipment**

**NSH** T-15 Trost Jet Mill

**NSH** Ascot Fluid Bed Coater

**MK** LABO Elbow Jet Classifier, EJ-L-3

**NSH** Small Hammer Mill, Mikro-pulverizer, Type SH

**NSH** V-Cone Blender, Patterson-Kelly, LB-7743

**NSH** Gemco Coater, vacuum dryer, 1/2 cu. ft.

**MK** Henschel Blender - FM40D

**NSH** ROTAP SEIVER

**Nashua Corporation**  
**Toner Packaging Equipment - Description**

**Filling Equipment - Offsite**

**Semi Automated Per-Fil Filling lines (2)**

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>		
Gravimetric filling head	Per-Fil	PF-15T-NW-RIT	7673		2000	5
4 of ss hopper	Per-Fil	PF-15T-NW-RIT	7676		2000	5
Turn table to feed cartridges to each station (part of filler)	Per-Fil	PF-15T-NW-RIT	7673		2000	5
Turn table to feed cartridges to each station (part of filler)	Per-Fil	PF-15T-NW-RIT	7676		2000	5
Check weigh load cell station					2000	5
Tare weigh load station (part of each filler)					2000	5
Farason Plugger (1) to insert plugs automatically into cartridges	Farason		J15905		2000	5
Dual Bulk Bag stations for each filler					2000	5
Hoist for dual bulk bag stations	Yale	KAL1-10RT13S1	18996391A	pneumatic-38cfm@90psi, 2000	2000	5
Hoist for dual bulk bag stations	Yale	KAL1-10RT13S1	18996391B	pneumatic-38cfm@90psi, 2000	2000	5
Hoist for dual bulk bag stations	Yale	KAL1-10RT13S1	19195071A	pneumatic-38cfm@90psi, 2000	2000	5
Hoist for dual bulk bag stations	Yale	KAL1-10RT13S1	19195071B	pneumatic-38cfm@90psi, 2000	2000	5
Various augers, funnels, pucks for various cartridges					2000	5

**Manual Mater Burt filling lines (2)**

Filler frame and hoist (one per filler) (2, 1 for each filler)						
Mateer burt gravimetric neutron filling head (1) <b>(Filler 9)</b>	Mateer-Burt					
Mateer burt gravimetric filling head (1) <b>(Filler 4)</b>	Mateer-Burt	1100	806782		1994	10
Various augers and funnels for mateer burt fillers						
Scales for gravimetric fill (2, 1 each filler)					1994	10
4 of SS hopper for each filler (2)					1994	10
Bottom up fill unit for filler					1998	10
Hoist for lifting bin above filler	Shaw-Box	L12025S1612000	L4-80287	electric, 480V, 1000# capacity,	1994	10

**Other Equipment**

Perfil Developer Filler	Per-Fil	MF	40019	120V/5.8A	2000	5
Micropul Dust Collector and blower (nuisance dust)	Micro-Pulsaire	64S-8-20	68-H-1189		1968	35
	Dayton	3C107A		15 HP Radial - 3530cfm@10"W	2002	3
Perfil micro filler	Per-Fil	MR-1	10367	120V/10A	2000	5
All Fill volumetric filler w/1 cf hopper and tote station	All-Fill	B	376717		1976	29
Check weighing scales (4)	Fairbanks	H70-4700	G996559 NA	Display - model#H90-3041, Serial#H105091FA	1998	7
Conveyor / labeler / capper system for 450 cartridge						
Spencer vacuum system w/blower and collector	Spencer	TH836AA	312554A	Tubular bag separator (cap-50	1990	15
	Spencer	24105A1	312554	15 HP, 400scfm@5.1"Hg	1994	10
Signode stretch Wrapper	Signode	SG310	53172	Spiral Grip Semiautomatic Overhead Stretch Wrapper		
Floor Scale	Rice Lake	4'x4' Roughdeck		5,000# capacity w/4'x3' ramp	2002	3
Digital Indicator for floor scales	Rice Lake	IQ-355			2002	3
Hydraulic Pallet lift mechanisms (3)	Bishammon	LV-10W	LV0002013	3 units (2 missing serial#)		
Little David case tapers - various (6)	Loveshaw	0	19841300	110V/4A		
	Loveshaw	4207	109184927			
	Loveshaw	LD-19	34980819			
	Loveshaw	LD-19	34980719			
	Loveshaw	7C	288112127			
	Loveshaw	7C	17874327			
	Central	CP-322U	931023	Part#9322U, 110V		
	3M Matic	38800	2099	110V?8A		
Unique cappers - custom made (620)						
Home made cartridge pluggers (6)						
Universal Labeler w/hot stamp				Label dispenser (model# 1280, S/N 930758) & Hot stamp for above		
Alloyd heat seal machines (3) - custom	Universal Labeling Systems		C205-1265A			
	Alloyd	2SM-1428	87-63	230V/30A (KT-1/1075 products)		
	Alloyd			IT-8 heat sealer		
Kiwi Lot Coder	Kiwi	9000	3900			

**Nashua Corporation**  
**Toner Packaging Equipment - Description**

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>
Label Dispensers (2)	Kiwi	9000	3958	
Bottle labelers - portable / bench top - (2)	Tape Dispenser Products	LH-31	type 39	
Cradle Labelers	Universal Labeling		R310D-1305G	Lot coder S/N C205-1062A
	Universal Labeling		R310D-1135G	Lot coder S/N C205-960A
30 HP compressor system	Gardner-Denver			30 HP/480V, ~130cfm @ 125psig
	Hankinson			air dryer for G-D air compresso 1999
Personel Cooling Fans	Dayton	3C315G		Propeller fans (3)
Drill Press	Wilton VS	5816	154242	

**Nashua Corporation**  
**Toner Packaging Equipment - Description**

**Filling Equipment - Nashua Facility**

**Rovema volumetric auger filling lines**

(2+C99) volumetric fillers w/ 2 cf ss hoppers **(Filler 6 & 7)**

(2) Ktron twin screw feeders to maintain hopper level

(2) 200?CF holding tanks with live bottom bins

(2) bag houses and blower units for conveying toner

**Mateer Burt Filling line**

Mateer Burt neutron 1100 filler **(Filler 8)**

2 cf ss hopper

Microset microprocessor control system

Gravimetric or volumetric capabilities

Silletta feeder with 50cf ss hopper

Vac-u-max pneumatic conveying unit with MD pneumatics PD blower

**Mateer Burt Filling line**

Mateer Burt filler - volumetric- 33AXP **(Filler 5)**

2 cf ss hopper

Silletta feeder with 50cf ss hopper

Vac-u-max pneumatic conveying unit using eductor and compressed air to transport

**Mateer Burt Dual Head semi-automated filling line**

(2) Mateer burt volumetric fill heads **(Filler 2)**

2 cf ss hopper for each filler

6" posiflate valve to control hopper level - each filler

Bottle unscrambler (1)

Conveyor to transport bottles to various stations

Kaps All bottle capper

Accumulating table

Tank (size??) for holding toner

MD Pneumatics PD blower with bag house to convey toner

**Other Equipment**

Little David case tapers - various (2)

Central products company - case taper

3M-Matic 22a adjustable case sealer

3M-Matic 77R random case sealer

Stretch Wrapper

Alloyd Sealer

Alloyd Sealer

Nuisance dust collector

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>		
	Rovema	S DOS Z/V	71102	Mach# 9672	1986	16
	Rovema	S DOS Z/V	1/104	Mach# 9662	1986	16
					1986	16
					1986	16
					1986	16
	Mateer Burt	1100	805927		1980	24
	Silletta	SFC-1919		50 ft3 hopper		
	Hi-Vi Vibratory Equip't			115V/4A		
	Vac-U-Max			16" unit w high hat filter		
	Tuthill	3204-46LS	7538G92	5 HP, 220/460V		
	Mateer Burt	33 AXP	33-A5702	Needs Microset controller	1995	8
	Silletta	SFC-1867		50 ft3 hopper		
	Hi-Vi Vibratory Equip't	M52A	MM10-757	115V/4A		
	Vac-U-Max			16" pneumatic powered unit w/ high hat filter		
	Mateer Burt		37N2-4837-1			
	Mateer Burt		37N2-4837-2			
	Nalbach Eng'g Co	NSJR	14195	pneumatic		
	Kaps-All	E	3029			
	Universal		C205-407A	w/model# C-205 hot stamp		
	Island Equip't	6508		48" rotary table		
	Tuthill	4009-17T3	36775R9810	20 HP Blower		
	Mikro-pulsaire	19.8.220	74H687	Baghouse		
	Loveshaw Corp	7C	27887927	110V/5A		
	3M-Matic	28600	8228			5
	3M-Matic	38800	2099			5
	Liberty Ind	Series 500S		w/turntable & ramp		
	Alloyd	2SM-1428	90-009	230V/30A plug-in		
	Alloyd	2SM-1428	90-010	230V/30A plug-in		
	Micro-Pulsaire	16S.6.30	67H501			

**Nashua Corporation - Merrimack, NH Facility**  
**Toner Misc Equipment - Description**

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Comments</u>
<b>Miscellaneous Mechanical Equipment</b>				
Dehumidifier	Cargocaire	HC600-EA	1207	Dehumidifier - 460V/18.2A
Lathe	LeBlond		12C1081	Lathe - 480V/8A
Miller	Bridgeport			Miller
Drill Press	Delta	17-540	86B79011	Drill Press
Bandsaw	Powermatic	143	66-3135-3	Bandsaw
Belt Sander	Rockwell	1225384	G10-229-2	Grinder/Belt Sander
Grinder	Baldor			1/3 HP
Dual grinder	Skil	247	802810	1/3 HP
Cut-off Saw	Delta	8"x14"		
Portable Arc Welder	Lincoln	AC-225-S	8370-104	
Lathe	Cantak	13		Lathe - 480V/8A
Miller	Bridgeport			Miller
Bandsaw	Crob	4V-18	4635	Bandsaw
Surface Grinder	Rockwell			Surface Grinder
Dual grinder	Rockwell	23-105	M-86 VA 103A06W CCW	1/2 HP
Dill Press	Rockwell/Delta	15-655	146040	
Belt Sander	Toolkraft			
Miter saw	Mikita			
Table Saw	Craftsman			10", 3 HP
Arbor Press	Dayton	3Z915		15 ton capacity
Pipe threader	Rigid	300	7615699	
<b>Power Trucks</b>				
Electric Walkie Power Truck	Yale	MPW045DAN12T2748	AB02N06244U	Excellent Condition
Sit down Forklift	Hyster	J30AS	A160V03718C	Inoperable at present
Standup Extended Reach Power Truck	Raymond #1	31DR25TT	031E807427	Needs brake drum
Standup Extended Reach Power Truck	Raymond #2	31DR25TT	031E807466	Runs fine - battery service needed
36V Battery Charger	Exide	NPC-18-3-850L	66990-11-EC	36V
24V Battery Charger	Exide	ETS-12-3-770	07408-13-VJ	24V
12V Battery charger	Exide	NPC-6-1-510	TO-270722-YF	12V
Electric Walkie Forklift	EW-69	Clark	ST40	4,000# cap
Electric Walkie Forklift	EW-70	Clark	ST30B	4,000# cap - load guard removed
Electric Walkie Forklift	EW-72	Clark	ST40B	3,050# cap
Electric Stacker	EW-54	Moto-Truck	TEL-S-EE	4000# cap
Elctric Walkie Power Truck	EW-61	Clark	P40E	EE rated
Elctric Walkie Power Truck	EW-71	Clark	P40F	P465-0140-8112FB
Elctric Walkie Power Truck	EW-66	Clark	P40E	P465-0439-6020
Elctric Walkie Power Truck	PRM	PRM	P40W48RU	8603
Elctric Walkie Power Truck	EW-91	Clark	MPW060SCN12T248EE	A838NO7240V
Scissors Lift		SkyJack		EE rated, 6,000# cap - excellent condition
Scissors Lift	Eliot Rm	Marklift		Extendable paltform w/battery charger
Aerial Lift		MarkLift		Propane vapor powered
Floor Scrubber		Tennant	5700	15283 w/ battery charger
<b>Various Misc Equipment</b>				
Natural gas fired hot water boiler	Teledyne	NB# 025924		Natural gas fired
3 Electric Hot Water Heaters	Bradford	M180R6DS13		80 gal, 4.5 Kw
Stretch Wrapper	Mima	2362		115V/15A w/turntable
Sandblaster	Empire	PF-3648	300	
Platform Lift	ECOA Lift	HLD-120-612-F		6'x12', 12,000# cap
Atlas Copco air compressor mt'd on expansion tk	Atlas Copco	LE9	AML285541	7-1/2 HP w/Brunner NB# 170724, NH ID# 25753, 120 gal, 200 psi receiver
Vacuum System	Spencer	S-291 Industravac	307557	10 HP, 350 scfm@5"Hg, w/collector
Expansion tank	Niles	NB# 37060	NH ID# 188816	135 psi vertical tak (~500 gal)
Expansion tank	Wood	NB# 733664	NH ID# 18817	275 psi horizontal (~300 GAL)
Expansion tank	Wood	NB# 84586	NH ID# 18818	275 psi horizontal (~300 GAL)
Expansion tank	Brunner	NB# 74812E		400 gal, 150 psi

**Nashua Corporation - Nashua, NH Facility**  
**Toner Misc Equipment - Description**

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	Comments	Age
<b>Misc Equipment</b>					
Roof mounted self contained A/C units	Carrier	50DD024600XG	N097420	460V/64A	
(5) Spencer Vacuum systems	Carrier	50DDJ012620-GA	3691G25237		
	Spencer	23106B1	313534	Blower - 520 scfm @ 6" Hg, 15 HP	
	Spencer		313535A	30" dia x 96" Tubular bag separator	
	Spencer	SA-507AMOD	314615	250scfm@5.7"Hg, 7-1/2 HP/220V	
				Tubular Bag Separator	
	Spencer	400H1	316600	15 HP blower	
				Tubular Bag Separator	
	Spencer	60X15	305663	15HP, 520scfm@6"Hg	
	Spencer	TH836AA	305663	30" dia x 96" Tubular bag separator	
	Spencer	24106B1	313535	Blower - 520scfm@6"Hg, 15 HP	
	Spencer		313534A	30" dia x 96" Tubular bag separator	
Nuisance Dust Collector (Filling Area)	Micro-Pulsaire	16S.6.30	67H501		
15KW Emergency Generator	Kohler	15RMY82	11701-A82N		
Natural gas diesel engine	Wisconsin	VG4D	6470973		
Transfer switch	Kohler				
Filter Press	US Filter	470G32-19-3MYLW	F06749	J Press	1999
	Yamada	NDP-40BAC	309915P7	Diaphragm Pump	
	Econ-O-Line	RA40X40CB		12 cfm	
Sandblaster					
<b>Mechanical Equipment</b>					
<b>Mechanical Shop Equipment</b>					
Lathe	Clausing			21"	
Surface Grinder	Blohm	Simplex 5	115-0115-210/1S-Xa	550V/16A	1964
Drill Press	Clausing	2271	528716		
Bridgeport	Bridgeport	Series I 2HP	2J1285572		
Bridgeport	Bridgeport		2J-16124		
Cut-off Saw	Do-All	C-916	438-361236	230V/3phase	
Sander	Delta	52-641			
Bandsaw	Grob	4V24	620		
Arbor Press	KR Wilson	37G	2939	60 ton capacity	
Arbor Press	Greenerd	3A			
Pipe cutting machine (portable)	Rigid	1224			
Plasma cutter	Thermal Arc	5XR			
Arc welder	Airco				
Mag drill					
portable table saw (2)					
misc portable power tools					
<b>Other equipment (out of service)</b>					
Donaldson Size 7-10 Majac Opposed Jet mill with upgraded rotor (out of service) w/l Majac		7-10	274	50 HP	
ACM Mechanical Pre-grinder	Mikro-ACM Pulverizer	10ACM	85C5216		
Collector for ACM pre-grinder	Fisher Klosterman	FKB-48-248-7	231723	Shop Tag# 17793	
Cyclone for ACM pre-grinder	Fisher Klosterman	XO120-6.5	15974		
Blower for ACM Pre-grinder	New York Blower	2408ALUM	H13252-100	15 HP	
Vac-U-Max	Vac-U-Max			16" w/ high hat & pneumatic blower	
Vibrascrew Feeder	Vibrascrew				
BP tanks					
Walters pump up system (2) collector & holding tank(~160 ft3)					
Blower for Walters system (2)	Tuthill	4012-17T3	6497R1-H01		
	Tuthill	4012-17T3	6346R10002		
Ingersol Rand C-25 centrifugal multi stage compressor (2500 cfm @110psig)	Ingersol Rand	2CV27M3	M90-5726	600 HP/4160V, 120 psi	1992
Ingersol-Rand dryer	Ingersol Rand	F250	911F002	Water cooled refrigerant air dryer, 460V/22.1A	1992
Expansion tank	Centac	NB# 481656	NH ID# 16732	150 psi	1999
Joy Centrifugal compressor (1800 cfm @ 100 psig?) w/afetrcooler and moisture separator	Joy	TA20V	BF5736	2100 icfm@140 psig, 500 HP/4160V Westinghouse motor	
Joy dryer	Wilkerson	A17-HH-POO	06-01-90-3458	2000scfm@39F, 460V/31A, R-22	
Expansion tank	Adamson	NB# 55452	ND ID# 16740	135 psi	1973
Donaldson B-18 Air Classifiers (2) (5HP VSD drives)	Donaldson	B-18	87P4050	2 HP VSD	

**Nashua Corporation - Nashua, NH Facility**  
**Toner Misc Equipment - Description**

	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	Comments	Age
Expansion Tank	Donaldson	B-18	18-12020	2 HP VSD	
Hoffman Collector	Madison	NB# 40349	NH ID# 16742	135 psi	
Hoffman Blower	Hoffman	T-5839/4	GT5839	Hoffco-Pulse	
Cyclone (Area #3, NW corner)	Hoffman	T2B-0403		20 HP multi-stage centrifugal blower	
Dust collector	Fisher Klosterman	XO120-4	16181		
Torit collector w/ exhauster and discharge rotary vlv	Mikro-Pulsaire	100S.8.20	67H1532		
Classifier	Torit			6'x6'x6' hopperw/ 1/4 HP Smoot rotary valve	
Reitz Disintegrator	Donaldson	B-18		2 HP	
Blower	Reitz	RP-6-K115	RP-810014	5 HP	
holding tanks (2)	New York Blower	2308A15	G00087-100		
Vac-U-Max	Vac-U-Max				
Vac-U-Max	Vac-U-Max				
Feeder	K-Tron	T-60			
Feeder	K-Tron	T-35			
Rotary Turntable					
Rotary Lobe Blowers	Tuthill	4009-46L3	7856R1 A04		
	Tuthill	5518-46L3	1047290407		
	Tuthill	5518-46L3	995290401		
	Tuthill	4012-17T3	4933R1-C02		
	Tuthill	4012-17T3	6601R-H98		
	Tuthill	1224-86R2-6159	1155R1J04		
Dust Collector	Micro-Pulsaire	100.S.8.20	68H579		
Rotary Valve Airlock	Micro- Airlock	C1	68A580		
Dust Collector					
Rotary Valve Airlock	Micro-Airlock	NR	466		
Battery Chargers (7)	Exide	IBC 12-450	57830-28-EF	24V	
	Exide	NPC-12-1-510	16447-14-XI	24V	
	Hobart	1R12-550	80CS01291	24V	
	Exide	NPC-18-3-880	00919-5-YA	24V	
	C&D Power Systems	FR6CE640M	FPIU863266	12V	
	C&D Power Systems	FR6CE640M	FPIU863019	12V	
	C&D Power Systems	FR6CE640M	FPIU863340	12V	
Electric Hoist	CM Lodestar	R	L-0424H	2 ton capacity	