

FACILITIES

LIST

Adopted: October 10, 1991

Revised: April 16, 2013

Presses for Coil Feed

<u>Tonnage</u>	<u>Description (Machine #)</u>	<u>Stroke</u>	<u>Speed SPM</u>	<u>Shut Height</u>	<u>Bed Area</u>	<u>Feed Width x Length</u>
400	Blow SC2-400-108-54 (#1090) SDG-400-470-98	10	20-60	28	54 x 108	36 x 36
300	Minster E2-300-72-42 (#114) 26960	10	0-90	24	72 x 42	30 x 24
200	Minster E2-200-72-42 (#113) 27774	6	0-100	22	72 x 42	24 x 18
200	Bliss S2-200-60-42SS (#112) CN2218	5	38	24	60 x 42	18 x 18
175	Cincinnati CNC Press (#119) 48851	10	NA	*	50 x 30	18 x 18
150	Bliss SC2-150-48-36 (#166)	8	60-120	24	48 x 36	18 X
120	Stamtec G1-110-S (#111) 0351	6	30-60	13¾	45 x 23	12 x 18
110	Niagra E-110 (#116) 50837	5	35-70	19¾	42 x 27	12 x 24
110	Cincinnati CNC Press (#120) 43095	10	NA	*	42 x 27	12 x 12
100	L & J PM2-100-54-30 (#115) M2100/22A	4	NA	18½	54 x 30	18 x 12
88	Stamtec G1-80 (#110) 0426	5	35-80	13	39 x 22	12 x Unlimited
75	Niagra E-75 (#118) 51651	4	0-80?	15¾	36 x 24	12 x 12
75	Clearing S2-75-48-30 (#106) 10-1065	8	NA	18	48 x 30	12 x 18
66	Stamtec G1-60 (#107) S60537	4¾	35-90	11¾	35 x 19	12 x 12
66	Stamtec G1-60 (#108) S60536	4¾	35-90	11¾	35 x 19	12 x 12
45	Perkins 45-S (#103) 32040	3	NA	11½	30 x 18	12 x 12
32	Minster B1-32 (#102) 11038	2½	NA	7½	22 x 14	Perfecto 4-6 DRF
30	Bliss 2½ (101) 34214	1½	NA	5½	15 x 12	4 x 5

* Hydraulic Press

Misc. Press Room Tools

	Machine	Serial Number	Machine Number
1	Grizzly heavy duty drill press	11024	#160
1	Hammond 400-D belt grinder/sander	12210	#163
1	Grizzly heavy duty drill press		#162
1	Hammond 400-D belt grinder/sander		#161

Presses for Secondary Operations

<u>Tonnage</u>	<u>Description</u>	<u>Stroke</u>	<u>Serial Number</u>	<u>Shut Height</u>
175	Minster E2-175-27-33 (#117)	6	S1-175-8846	NA
150	Danly (#146)	12		19 1/2
80	Minster 80S-5-72 (#100)	6	80S-5-6658	17 1/4
93	Bliss 28-B (#105)	6	H-41166-HP25642	13 1/8
75	Minster #7 (#104)	6	7-6928	16
70	Minster 70-4 (#243)	4	70-4-11866	17
66	Stamtec G1-60 (#229)	4 3/4	S90943	11 1/4
60	Minster #6 (#224)	5	6-9071	17
60	Minster #6 (#230)	5	6-9218	17
35	Niagra A-35 (#222)	5	48766	13 1/4
32	Minster #4 (#221)	4	4-11293	14
30	Niagra A2 1/2	3	NA	10
22	Niagra A-22 (#227)	2 1/4	50206	9
18	Niagra A-2 (#226)	3	24911	10 1/2
15	Niagra A-15 (#228)	3	50209	9 3/4
15	Niagra A-15 (#211)	3	50208	9 3/4
15	Greenerd HRB-15 (#232)	0 – 8	98T5532	16

15	Greenerd HRB-15 (#217)	0 – 8	97T5278	16
11	Niagra A1¾ (#255)	2¼	33814	5

Presses for High Volume Secondary Operations

<u>Tonnage</u>	<u>Description</u>	<u>Serial #</u>	<u>Stroke</u>	<u>Shut Height</u>	<u>Bed Area</u>	<u>Feed Method</u>
125	Bliss 28½ (#261)	A3708-17928	4	22	37 x 27	Automatic Feed
70	Ferracute CG34½ (#224)	23693	4	16½	24 x 36	Magazine Feed
50	V & O 50S (#245)	50-S-170	1	13	31 x 15½	Dial Table

CAD/CAM Equipment

- 2 AutoCAD 2013 Design Suite - 2 with Die maker Software Package
- 2 Pro / Engineer Wildfire 4.0
- 1 Hewlett-Packard Design jet T790 44" Color Plotter
- 3 Esprit Version 5.0 – RS-232 interface
- 1 Esprit C V10.0 DOS 2-D CAM System – RS-232 Interface

EDM Equipment

- 1 1998 Mitsubishi FX-20 Wire EDM #315
 - Speed = 23.5 SQ. in./hr.
 - Weight Capacity = 1764 LBS.
 - Travel = 19.68" x 13.77" x 11.81"
 - Accuracy = ± .0002"
 - Graphic Display & Auto-Wire-Feed
- 1 1992 Mitsubishi DWC90C Wire EDM #343
 - Speed = 31.5 SQ. in./hr.
 - Work piece weight 330 LBS.

- Travel = 9.84 X 11.81
- Table size = 24 X 34 X 6.2
- Graphic Display and Auto wire feed

Quality Department

- *Not mentioned are Pin Gages, Calipers, Mics, and other related instruments.*

	Machine	Serial Number	Machine Number
1	OGP XL-827 contour projector, Optical comparator, 8" x 32" table w/10" x 12" travel, Dro & Edge finder	XLO-8270210	#500
1	Deltronics DH30 w/Autofocus, Optical comparator, 9" x 25" table w/8" x 12" travel.	7195	#502
1	18" x 24" Steel Surface Plate (Quality Dept)	NA	#505
1	12" x 18" Stone Surface Plate (Quality Dept)	2836-8	#509
1	18" x 24" Stone Surface Plate (Tool Room)	994-4	#506
1	12" x 18" Stone Surface Plate (Press Dept)	9005	#507
1	18" x 24" Stone Surface Plate (Assembly Dept)	1195	#510
1	12" x 18" Stone Surface Plate (Tool Room)	4241-A	#508
1	Wilson / Rockwell B504T Hardness Tester	97275309	#511
1	Clark T8185 Hardness Tester (Press Dept)	T8185	#512

Heading Equipment

1	Manville 3 S.S.O.D. crank header, 3/8" diameter x 7" capacity	J66668	#247
1	Manville 2 S.S.O.D. crank header, 5/16" diameter x 4-1/2" capacity	NA	#251

Riveting Equipment

	Machine	Serial Number	Machine Number
2	Adtek SAF-2 automatic tubular rivet machine	U3950402484	#156, #242
4	Adtek automated orbital riveting stations with Camco indexing table		
1	Bracker Radial Riveter	NA	#236
2	Greaser stations (Indoor hinge body slots)	NA	#269, #270
1	Milford 220 Automatic Tubular Riveter Machine	1532	#210
2	Milford 256 Automatic Tubular Riveter Machine	1253 1313	#205, #209
1	Milford 310 Automatic Tubular Riveter Machine	1301	#208

1	Milford 405 Automatic Tubular Riveter Machine with bowl feeder		#271
4	Milford 410 Automatic Tubular Riveter Machine	1557, 1542,	#238, #239, #276, #277
1	Milford 413 Automatic Tubular Riveter Machine with extra rivet drive		#272
1	Milford 510 Automatic Tubular Riveter Machine	688	#241
1	Milford 510 – VH Automatic Tubular Riveter Machine	725	#240
3	Springer stations (indoor hinge)	NA	#273, #274, #275
1	Stimpson Riveter	NA	#207
2	Taumel BK-120/NM orbital precision head forming machine	EEG-23 HGG-62855	#215, #216
1	Taumel T-500 Orbital Precision Head Forming Machine	500-96-397	#212
1	Tubular Rivet and Stud 81A automatic tubular rivet machine	NA	#206
1	Black & Walker BW-50 Riveter	197	#203
2	Taumel T501 Orbital Precision HeadForming Machine	MAH32-7270 MAH40-7258	#233, #234

Threading Equipment

1	Waterbury-Farrel #30 horizontal thread roller	14473/434	#246
1	Waterbury-Farrel #2 screw slotter	75145-86210	#164

Tapping Equipment

	Machine	Serial Number	Machine Number
1	Clausing 16VC drill press with 3/8" capacity tapping unit	506317	#262
1	Hypneumat M350E-1-12 electronic tapper, 3/8" capacity	100626-1/2	#223
2	Hypneumat QM350E tapping head		# 223
1	Proconier Multiple Spindle tapper with 18 station hydraulic table, 1/2" capacity	B8799	#201
1	Proconier Dual Tapper	4952	#225

Welding Equipment

	Machine	Serial Number	Machine Number
1	Acetylene Torch W/ O2 tank	NA	#718
3	Hobart Beta Mig 2510	KJO77719 496WS19143	#702, #802, #803
4	Hobart Beta Mig 2510		#900-903

1	Hobart TR250 Welder	89WS19991	#703
1	Larkin KVA 30 AC spot welder	NA	#257
1	Marquette 92C Ac/ABC welder with oxygen and acetylene regulators		#717
1	Miller Econo Twin H. F., TIG	JJ427615	#801
1	Thompson Model A2 SpotWelder w/Interlock Controller	18324	#256
1	Miller portable hand spot welder	NA	#166

Compressors

	Machine	Serial Number	Machine Number
1	Ingersoll-Rand SSR XF 125, 125 HP	170815	#706
1	Ingersoll-Rand IRN 75 HCC, 75 HP (Nirvana)		#719
1	Ingersoll-Rand EP75, 75 HP (Rotary)		#720
1	Ingersoll-Rand TMS Compressor Tank Unit		#721
1	Worthington 10x11HB, 50 HP	L76573-T	#707

Milling Equipment

	Machine	Serial Number	Machine Number
3	Hurco VM20 CNC Machining Center	06006117BHA	#349, #350, #351

Toolroom

	Machine	Serial Number	Machine Number
1	Acer Supra 618 Surface Grinder	97101076	#316
1	Baldor Belt / Disc Sander	W3-96	#327
1	Black Diamond BW-80 drill grinder	26031	#321
1	Boyer Schultz 6" x 18" H612 hand surface grinder	NA	#310
1	Bridgeport vertical mill – T-215	7220	#346
2	Brown & Sharp surface grinders 17" x 6"	523-7236-3704 523-2618-3703	#312, 314
1	Brown & Sharpe 12" x 36" Surface Grinder w/DeVleig Bullard control	523-7236-2373	#308
1	Cincinnati 105 Pedestal Grinder		#325
1	Cincinnati LE drill press	2380192	#319
1	Clark CTT-8 twin hardness tester		

1	Clousing Colchester lathe, 15" x 50" capacity	NA	#302
1	Clousing Kondia FV-300 Vertical Mill, 58" x 11" table w/48" x 14" travel.	AA-7	#307
1	Dayton 32849 Bead Blaster	90-4728	#311
1	DoAll geared head radial drill, 1-1/4" chuck size	134305	#318
1	DoAll Reading FB-2V vertical mill w/two-way digital readout	NA	#309
1	DoAll reading ML band saw	4712971	#304
2	Gallmeyer & Livingston Co. surface grinder, 36" x 16	263254 570229	#303, #305
1	Harrington 5 Ton Chain hoist die table area		#344
1	Hevi-Duty electric salt bath		
3	Hydraulic die Carriers		#339, #340, #341
3	Hydraulic die table		#329, #330, #331
1	Kovosvit VO50 Radial arm drill press	3841	#317
1	LeBlonde Makino RMC55 CNC Mill - 31.5" x 12.625" x 13.75" – 550 Lbs. Max Work Load	K1269	#313
1	Linder Jig Bore machine, 4 H.P., 16" x 32" table with 16" x 24" travel. Dro and Optics	694	#301
1	Lucifer DL-8008-A space saver furnace, with quench tank	4672	#324
1	Lucifer electric furnace, 26" x 21" x 12"	5635	#323
1	Lucifer Gas Furnace HL7GE-R24		#345
1	Lyon Raymond material handling table, 2,000 lb. capacity		
1	Makino KE55 CNC Mill		#332
1	MDW 3000 Drill Press		#342
1	Mechanical lift table, 1,000 lb. capacity		
3	Mechanical lift table, 2,000 lb capacity		#333, #334, #335
1	Monarch Toolmaker's lathe, 10" x 20"	38436	#326
1	MSC 2hp Drill Press	490031	#320
1	Porto Power hydraulic press, 10 ton		#328
1	Power Team 55 Ton Hydraulic H Frame Press	1704X17549	#322
3	Regal (Mechanical Die Carriers) 750 lb. Capacity		#336, #337, #338
1	Sheldon – Lathe R15-6	30864	#347
1	Tree 2UV vertical mill	NA	#306

1	Wells, Model F-16-1, horizontal band saw, 18" x 16" capacity	F-16-9036	#300
1	Grizzly Milling and Drilling – 69749 (serial # 331238)	69749	#346
1	Electrical lift table		#347

Maintenance

	Machine	Serial Number	Machine Number
1	25115A Pedestal Grinder	NA	#705
1	Bench Grinder		#716
1	Burnham Boiler #1	261655B	#700
1	Burnham Boiler #2	261656B	#701
1	Delta Cut-off 05130		#714
1	Delta UC 23-115 Delta Belt/Disc Grinder	P9348	#704
1	KO Lee Surface Grinder 18" X 6"	26130YC	#713
1	Machine World Vertical Mill	88083	#710
1	Niagara 7B (thumper)	NA	#709
1	Niagara A-22	50207	#231
1	Powermatic 1200 Drill Press	66-814	#708
1	South Bend Lathe	CL185D	#711

Finishing Equipment

	Machine	Serial Number	Machine Number
4	Baird tumbling barrels	NA	#400, #401, #413, #414
1	Barrel tipper	NA	#405
1	Harrington ¼ ton chain hoist		#420
9	Ingersoll-Rand Aro pumps		#421-429
1	Parts spinner / dryer	NA	#410
1	Partswash RD-973-4E (18 ft., four stage wash/dry unit - wash, rinse, rust inhibit, dry)	4E11177	#412
1	Roto-Finish Spiratron ST-12D, 12 ft³, cob meal vibratory deburring unit	12D83D1	#402
1	Roto-Finish ER-40 LRB, 40 ft³, vibratory ball burnishing unit	ER-40LRB-A106	#411
1	Roto-Finish ER-1822D, 20 ft³, cob meal vibratory deburring unit	ER-1822D-06-C2	#430
1	Roto-Finish Spiratron ER-1822C 20 ft³, vibratory ball	ER-1822C-96-	#403

	burnishing Unit	B22	
1	Roto-Finish Spiratron ST-12B, 12 ft ³ , vibratory ceramic finishing unit	12B-83-H1	#408
1	Rust Veto station with New Holland K94 spin dryer and K94 digital readout scale	857735	#404
1	Sweco FMS-14LR 14 ft ³ ball burnishing mill	F20K13007RM	#409
1	Dynatec Treated Water Mixing Station / Tank 1500 gal		#415
1	Treated Water Holding Tank, 1550 gal		#416
2	Waste water holding tank 3000 Gal		#417, #418
1	Ultramatic CE-30144 60 ft ³ vibratory deburring unit	1235	#406
1	Zinc water holding tank 1400 gal		#419
1	9B-P 10" Belt Mill Unloader 8-4-6	31342	#407

Shipping Department

1	Alltex shrink wrap dispenser, 15" wide	NA	#603
1	Bostitch pneumatic stapler		#610
1	BPN-9002 Single box stapler	NA	#600
1	Budget electric hoist, 1/2 ton capacity	404957-6	#604
2	Kelley Dyna-Load hydraulic dock leveler	90710	#605, #606
1	Toledo 8132 Scale, 20,000 lb. capacity with printer	2166344-2UJ	#608
1	Toledo 2181 scale, 1,000 lb. capacity with Toledo 8182 digital parts counting scale, 80 lb. capacity	5054928-SRA	#609

Hydraulic & Forklift

1	Big Joe 20-18-T11, 11 ft. lift, 2,000 lb. capacity		
1	Clark LP Forklift GCS30MC - 5,350 lb. capacity		
2	Clark electric lift truck, 2475 lb. capacity (ESM15, TM15S)		
1	Clark LP Forklift CGC32 – 6500 lb. capacity		
1	Crown Lift truck 40GPW-27-14, 4,000 lb Capacity		
1	Clark LP Forklift CGC30, 6,000 lb Capacity		
1	ECO A HHS-F-302253-SS hydraulic lift, 1,000 lb. capacity		
1	Mitsubishi Fork Truck		
2	Multi-ton Hydraulic lift truck 5,500 lb Capacity		

3	Mechanical Hydraulic Lift truck
2	Presto M-152-1 hydraulic lift, 1,000 lb. capacity
1	Wesco SPL-60-2424 hydraulic platform lift, 1,000 lb. Capacity
1	Yale LP Forklift - GLC050RGNUAF084 - 4700 lb capacity

Auxiliary Equipment

3	American Steel Line 60, 4,000 lb. motorized coil reel	#152, #153, #165
1	American Steel Line 60, 2,500 lb. capacity motorized coil reels	#145
1	Battery Charger #2 (shipping)	#602
2	Benchmaster 615 Koil Kradle, 60", 4,000 lb. capacity	#144, #143
1	Benchmaster 618 Koil Kradle,	#138
1	Benchmaster 210-B Koil Kradle, 1,500 lb. capacity	Junk
1	COE CF .250 X 15 X 12 Feeder	#126
1	COE Feeder	#127
1	Cooper Weymouth Pertersone 4R18 Coil Cradle 8,000 lbs	#142
1	Cooper Weymouth Perterson Se12B Coil Cradle (.125 X 12)	#141
1	CSI Hinge Drill Press	#235
1	Dallas Code 40581 Feeder	#139
1	Dallas D200 Feeder (.090 X 12 X 12)	#124
1	Dallas D200 Feeder	#150
1	Dallas D200 Feeder (in barn)	#157
1	Dallas D250 Feeder (.090 X 18 X 12)	#132
1	Dallas D250 Feeder (.125 X 12 X 24)	#131
1	Dallas D250 Feeder (.125 X 12 X 18)	#128
1	Dallas D250 Feeder (125 X 12 X 12)	#129
1	Dallas D250 Feeder (.170 X 24 X 18) RH	#134
1	Dallas D400 Feeder	#149
1	Dallas D400 Feeder (.200 X 18 X 18) RH (min .032 X 1)	#130
1	Dallas D500 feeder (.150 X 36 X 36) RH (min .032 X 1)	#123

1	Dallas D500 Feeder (.180 X 30 X 24)	#133
1	Dallas DCC 10,000 lbs X 18 LH Coil Cradle	#148
1	Dallas DECS 1818 RH Feeder (090 X 12 X 12)	#122
1	Dallas DECS 1818 LH Feeder (090 X 12 X 12)	#121
1	Dallas DWF400 Feeder (.375 X 24)	#125
1	Dallas Feeder	#140
1	EB-192A Bowl Feeder (Molly's Machine)	#265
1	ED172 Bowl Feeder (Molly's Machine)	#266
2	DB092 Bowl Feeder (Becky's Machine)	#263, #264
2	EB1C Bowl Feeder (one on Shirley's Machine)	#268, #267
1	EB3C Bowl Feeder (Shirley Machine)	#268
1	Fork lift Batter Charger	#260
1	Gauer 5H10 safety edger, 1/8" x 6"	
1	Hinge Curling Machine	#202
3	Hinge Staking Machines (Molly's, Shirley's, Junk	#219, #214, #213
1	Hm Production Drill Press	#159
8	Horizontal coil pan, 500 lb. capacity	
1	Jaco horizontal stock reel, 2,000 lb. capacity	
1	Littell 626-5PD Coil Cradle 10,000 lbs	#135
1	Maytag Broiler Hinge Springer	#259
2	Semi-Automatic Hinge Assembly Machine (Betty's, Becky's)	#218, #220
1	Roper Semi- Automatic hinge assembly machine (Tammy's)	#270
1	Roper Springers (L and R)	#258
1	Rowe C4000 coil cradle straightener, 10,000 lb. capacity	#136
1	Rowe 4020, 60", 4,000 lb. coil cradle	#137
1	Shepard Niles bridge crane, 5 ton capacity, 38' bridge x 140' travel	
1	Shuster 2ABV wire straightener, 3/8" x 8"	#248
1	Stytron R65282 Bowl Feeder	#250
1	Uni-Coiler, 5000 lb. Capacity	#147

2	Versa Ferguson Conveyor (in barn)	#154, #155
1	Walker Turner Reamer	#237
1	Wing Nut Machine (leeson C6C11DB1C	#200