



Century Metal Products, Inc.

181 Stedman Street #9, Lowell, Massachusetts 01851-5209

Phone (978) 454-8051 Fax (978) 458-4455

Email us at info@centurymetalproducts.com

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Facilities

FABRICATING

Murata Wiedemann V3000 CNC Turret Punch Press with Auto-Load
Cell for AROUND THE CLOCK – UNMANNED OPERATION

Murata Wiedemann C2000 CNC Turret Punch Press with Auto-Load
Cell for AROUND THE CLOCK - UNMANNED OPERATION

Wiedematic W2040 N/C Turret Punch Press

(2) 30/30 Stripit Fabricators

Kidder 25 Ton Hydraulic Press

Whitney Jensen Punch Press: 24" 20 Ton Capacity

Whitney Jensen Punch Press: 18" 20 Ton Capacity

Greenlee Pneumatic Punch Set

6" X 6" Kidder Hand Notcher

Roper Whitney Power Rolls, 36"

(3) Toggle Action Foot Presses

SHEARING

Amada M-2560 Shear 8 Foot ¼ C. R. S. Capacity

Pexto Foot Shear 3 Foot 16 ga. C.R.S. Capacity

FORMING

Acupress Press Brake: 10 Foot 100 Ton Capacity
w/computerized back gauge

(2) US Amada Press Brakes: 6 Foot 50 Ton with NC9-EX II Controls w/computerized
back gauge

(2) Di-Acro Press Brakes: 6 Foot 35 Ton Capacity
w/computerized back gauge

Chicago Press Brake: 4 Foot 15 Ton Capacity
w/computerized back gauge

SPOTWELDING/WELDING

Amada ID40ST 257KVA for Steel and Aluminum

150 KVA Spotwelder for Steel and Aluminum

125 KVA Spotwelder for Steel and Aluminum

(2) 200 Amp Lincoln MIG Welders

250 Amp Miller Heliarc Welder

300 Amp Lincoln Heliarc Welder

Plasmacutter Thermal ARC Pak3KR

Oxygen & Acetylene Torches



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Facilities (continued)

MACHINING

Bridgeport Milling Machine: with 42" Table and X-Y Readout
Bridgeport Milling Machine: with 48" Table
Strippit Punch & Die Grinder
Kent Lathe, 12"
Rotary Table
Clausing Surface Grinder
(4) Delta Drill Presses
Abrasive Cutoff Saw
Horizontal Band Saw
Enco Band Saw
5 Ton Arbor Press

SANDING/GRINDING

3" Double Wheel Back Sander
4" Double Wheel Back Sander
(2) Tumbling & Polishing Machines
Ramco 36" Wide belt wet finish sander
Falls Deburrer
4' Stroke Sander
9" Timesaver Sander
Delta Bench Grinders
(3) Milwaukee Disc Sanders
Glass Bead Booth
(2) Clean Air Grinding Booths

INSPECTION

(2) 24" x 36" Surface Plates
Mitutoyo Digital Height Gauge (0-40")
Verniers up to 40"
24" Height Gauges
(2) .061 to .500 Pin Sets
Set of gauge blocks
Micrometers & Indicators
Fischer Permascope for measuring coating thickness requirements (MIL-STD-45662A)
All tools calibrated and traceable to N.I.S.T. per MIL-I-45208A
Assorted Thread Gauges
Precision Squares



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Facilities (continued)

HARDWARE/ASSEMBLY

Haeger 824 Inserting Press with Auto-feed Attachment
Haeger HP6-C Inserting Press with Auto-feed Attachment
(2) Haeger 824 Inserting Press

ADDITIONAL SUPPORT EQUIPMENT

Fully networked computer system including:
Pro-E, Auto Cad and Metalsoft for data file transfers
Complete Programming System with Plotter (F Size)
Computerized Scheduling and Shop Load System
Computerized Job Cost System
(3) Delivery Trucks (Up to 24' Box Truck)
(3) 3,000 Lb. Capacity Fork Lifts
(2) Digital Counting Scales



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Ovals

.030	x	.250	.120	x	.130	.141	x	.500
.030	x	.500	.120	x	.170	.142	x	.187
.040	x	.500	.120	x	.218	.142	x	.380
.050	x	.375	.120	x	.250	.145	x	.686
.062	x	.125	.120	x	.500	.152	x	2.000
.062	x	.250	.125	x	.187	.154	x	.265
.062	x	.500	.125	x	.225	.154	x	.285
.062	x	1.000	.125	x	.250	.156	x	.187
.062	x	1.500	.125	x	.312	.156	x	.200
.065	x	.375	.125	x	.375	.156	x	.210
.067	x	.167	.125	x	.437	.156	x	.250
.070	x	.310	.125	x	.500	.156	x	.266
.070	x	1.062	.125	x	.560	.156	x	.281
.075	x	.800	.125	x	.600	.156	x	.312
.075	x	1.250	.125	x	.630	.156	x	.375
.078	x	.188	.125	x	.750	.156	x	.406
.078	x	.360	.125	x	.800	.156	x	.437
.079	x	.329	.125	x	.875	.156	x	.500
.079	x	.750	.125	x	1.000	.156	x	.536
.080	x	.800	.125	x	1.160	.156	x	.640
.080	x	.907	.125	x	1.250	.156	x	.656
.093	x	.190	.125	x	1.500	.156	x	1.000
.093	x	.250	.125	x	1.750	.157	x	.551
.093	x	.375	.125	x	1.977	.157	x	1.080
.093	x	.500	.125	x	2.000	.160	x	.250
.093	x	.875	.128	x	.218	.160	x	.343
.093	x	1.125	.130	x	.260	.160	x	.440
.093	x	2.000	.131	x	.240	.160	x	.500
.094	x	.312	.136	x	.500	.160	x	.556
.094	x	1.172	.140	x	.180	.166	x	.225
.098	x	.750	.140	x	.204	.166	x	.250
.098	x	1.000	.140	x	.250	.166	x	.556
.110	x	.500	.140	x	.511	.166	x	2.000



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Ovals (continued)

.169	x	.219	.187	x	.687	.205	x	.400
.169	x	.331	.187	x	.697	.205	x	.500
.169	x	.750	.187	x	.750	.206	x	.456
.171	x	.231	.187	x	.875	.206	x	1.000
.171	x	.340	.187	x	1.000	.213	x	.275
.171	x	.380	.187	x	1.250	.218	x	.281
.171	x	.450	.187	x	1.375	.218	x	.312
.171	x	.472	.187	x	1.437	.218	x	.343
.171	x	.500	.187	x	1.500	.218	x	.375
.172	x	.250	.187	x	1.875	.218	x	.410
.172	x	.300	.187	x	2.500	.218	x	.437
.172	x	.310	.188	x	.235	.218	x	.453
.172	x	.380	.191	x	.310	.218	x	.500
.172	x	.500	.192	x	.343	.218	x	.525
.172	x	1.172	.193	x	.225	.218	x	.625
.173	x	.375	.193	x	.320	.218	x	.687
.173	x	.500	.193	x	1.500	.218	x	.718
.174	x	.300	.194	x	.250	.218	x	.750
.176	x	.312	.196	x	.375	.218	x	1.000
.177	x	.220	.196	x	.625	.218	x	1.500
.177	x	.375	.197	x	.394	.218	x	1.750
.177	x	.420	.200	x	.275	.218	x	2.187
.182	x	.312	.200	x	.600	.218	x	2.500
.184	x	.215	.203	x	.312	.219	x	.500
.187	x	.250	.203	x	.375	.219	x	.625
.187	x	.265	.203	x	.453	.219	x	1.000
.187	x	.281	.203	x	.625	.220	x	.420
.187	x	.312	.203	x	.734	.228	x	.375
.187	x	.375	.203	x	2.000	.230	x	1.399
.187	x	.406	.204	x	.462	.232	x	.500
.187	x	.437	.204	x	.562	.234	x	.351
.187	x	.500	.204	x	.762	.234	x	.375
.187	x	.625	.204	x	1.000	.234	x	.437



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.234	x	.562	.281	x	.750	.406	x	.750
.234	x	.750	.281	x	1.000	.406	x	1.030
.236	x	.984	.281	x	2.900	.406	x	1.260
.236	x	2.500	.293	x	.565	.431	x	1.312
.250	x	.312	.295	x	.409	.437	x	.730
.250	x	.375	.310	x	.800	.437	x	.312
.250	x	.394	.312	x	.375	.437	x	.750
.250	x	.406	.312	x	.500	.437	x	1.312
.250	x	.437	.312	x	.515	.437	x	3.000
.250	x	.500	.312	x	.562	.438	x	.688
.250	x	.570	.312	x	.666	.438	x	1.320
.250	x	.625	.312	x	.700	.438	x	.3000
.250	x	.750	.312	x	1.000	.469	x	1.680
.250	x	1.000	.312	x	1.750	.473	x	3.000
.250	x	1.375	.312	x	3.000	.496	x	1.171
.250	x	1.500	.341	x	.461	.496	x	1.871
.250	x	1.750	.343	x	.520	.496	x	3.296
.250	x	2.000	.343	x	1.000	.500	x	.750
.250	x	2.500	.350	x	.440	.500	x	1.000
.253	x	.440	.370	x	3.000	.500	x	1.750
.253	x	1.000	.375	x	.500	.550	x	1.550
.253	x	1.620	.375	x	.562	.562	x	1.000
.263	x	.642	.375	x	.600	.562	x	1.100
.265	x	.375	.375	x	.625	.562	x	1.500
.265	x	.437	.375	x	.700	.600	x	1.380
.265	x	.500	.375	x	.750	.600	x	1.500
.266	x	.312	.375	x	.875	.618	x	1.987
.281	x	.375	.375	x	.900	.625	x	1.000
.281	x	.406	.375	x	1.000	.625	x	1.125
.281	x	.485	.375	x	2.000	.625	x	3.125
.281	x	.500	.375	x	2.394	.690	x	.970
.281	x	.562	.375	x	2.562	.750	x	1.125
.281	x	.625	.394	x	.500	.750	x	2.500



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Rectangles up to .349

0.030	x	0.250	0.085	x	0.375	0.125	x	0.305
0.032	x	0.125	0.085	x	0.500	0.125	x	0.500
0.040	x	0.281	0.085	x	0.750	0.125	x	0.625
0.040	x	0.500	0.089	x	0.810	0.125	x	0.750
0.050	x	0.156	0.091	x	0.205	0.125	x	0.850
0.050	x	0.250	0.093	x	0.250	0.125	x	1.000
0.050	x	0.319	0.093	x	0.500	0.125	x	1.050
0.050	x	0.375	0.093	x	0.687	0.125	x	1.500
0.050	x	0.500	0.093	x	0.750	0.125	x	2.000
0.050	x	0.645	0.093	x	0.875	0.125	x	3.000
0.062	x	0.125	0.093	x	1.000	0.130	x	0.234
0.062	x	0.164	0.093	x	1.595	0.138	x	0.400
0.062	x	0.187	0.095	x	0.300	0.139	x	0.401
0.062	x	0.250	0.100	x	0.120	0.140	x	0.335
0.062	x	0.375	0.100	x	0.138	0.140	x	0.500
0.062	x	0.500	0.100	x	0.218	0.140	x	1.015
0.062	x	0.562	0.100	x	0.250	0.148	x	0.409
0.062	x	1.000	0.100	x	0.265	0.150	x	0.375
0.062	x	1.375	0.100	x	0.280	0.150	x	0.800
0.062	x	1.630	0.100	x	0.660	0.150	x	1.120
0.062	x	2.000	0.100	x	0.750	0.155	x	0.281
0.062	x	3.000	0.100	x	1.265	0.156	x	0.250
0.070	x	0.260	0.100	x	2.440	0.156	x	0.281
0.070	x	1.000	0.106	x	0.136	0.156	x	0.406
0.075	x	1.650	0.110	x	0.500	0.156	x	0.875
0.075	x	2.000	0.110	x	1.000	0.156	x	1.000
0.078	x	0.500	0.117	x	0.265	0.156	x	1.100
0.078	x	0.750	0.118	x	1.000	0.156	x	1.500
0.078	x	0.800	0.118	x	3.000	0.156	x	3.000
0.080	x	0.150	0.120	x	2.440	0.160	x	0.260
0.080	x	0.200	0.122	x	0.265	0.160	x	0.960
0.080	x	0.810	0.125	x	0.250	0.165	x	0.281
0.080	x	1.560	0.125	x	0.300	0.165	x	0.955



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Rectangles up to .349 (continued)

0.168	x	0.258	0.219	x	0.562	0.281	x	1.000
0.170	x	0.600	0.220	x	0.320	0.285	x	0.900
0.171	x	0.335	0.225	x	0.890	0.285	x	2.000
0.171	x	0.340	0.225	x	1.090	0.291	x	1.250
0.171	x	0.450	0.230	x	0.270	0.295	x	1.250
0.171	x	0.750	0.230	x	0.570	0.300	x	0.400
0.175	x	0.260	0.235	x	0.400	0.300	x	0.500
0.176	x	0.339	0.240	x	0.405	0.300	x	0.900
0.180	x	0.250	0.240	x	0.450	0.312	x	0.343
0.187	x	0.281	0.250	x	0.312	0.312	x	0.531
0.187	x	0.312	0.250	x	0.500	0.312	x	0.625
0.187	x	0.328	0.250	x	0.750	0.312	x	0.688
0.187	x	0.375	0.250	x	0.850	0.312	x	1.000
0.187	x	0.428	0.250	x	1.000	0.312	x	1.045
0.187	x	0.500	0.250	x	1.250	0.312	x	1.750
0.187	x	0.540	0.250	x	1.500	0.320	x	0.440
0.187	x	0.750	0.250	x	1.750	0.325	x	0.750
0.187	x	1.000	0.250	x	1.875	0.330	x	1.000
0.187	x	1.750	0.250	x	2.000	0.330	x	2.667
0.188	x	0.312	0.250	x	2.500	0.340	x	0.630
0.191	x	0.381	0.250	x	2.900	0.340	x	1.500
0.196	x	0.787	0.250	x	3.200	0.340	x	1.665
0.200	x	0.500	0.250	x	3.375	0.343	x	0.687
0.200	x	2.800	0.250	x	4.000			
0.203	x	0.453	0.257	x	0.395			
0.210	x	2.000	0.260	x	0.500			
0.213	x	2.300	0.262	x	0.362			
0.215	x	0.315	0.262	x	0.462			
0.218	x	0.420	0.262	x	0.862			
0.218	x	0.500	0.270	x	0.295			
0.218	x	0.562	0.270	x	0.884			
0.218	x	0.780	0.275	x	1.042			
0.219	x	0.550	0.281	x	0.937			



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Rectangles over .350

0.350	x	2.690	0.420	x	0.937	0.510	x	0.782
0.370	x	0.533	0.420	x	1.780	0.513	x	1.743
0.370	x	4.010	0.422	x	0.563	0.520	x	0.875
0.375	x	0.437	0.435	x	0.475	0.521	x	1.062
0.375	x	0.493	0.437	x	1.000	0.523	x	0.728
0.375	x	0.500	0.437	x	1.687	0.531	x	1.000
0.375	x	0.750	0.437	x	3.000	0.531	x	1.670
0.375	x	1.000	0.440	x	0.820	0.540	x	0.635
0.375	x	1.032	0.444	x	1.000	0.540	x	0.650
0.375	x	1.500	0.446	x	0.646	0.540	x	1.600
0.375	x	2.000	0.450	x	0.620	0.540	x	2.100
0.375	x	2.500	0.450	x	0.800	0.541	x	1.000
0.375	x	3.375	0.450	x	0.850	0.550	x	0.625
0.380	x	0.880	0.452	x	2.982	0.550	x	0.640
0.380	x	0.944	0.460	x	1.000	0.550	x	1.125
0.390	x	0.615	0.460	x	2.100	0.550	x	1.550
0.390	x	1.094	0.475	x	0.750	0.550	x	1.750
0.394	x	0.677	0.475	x	1.040	0.554	x	0.656
0.400	x	0.460	0.475	x	2.000	0.556	x	1.246
0.400	x	0.500	0.480	x	1.720	0.560	x	0.820
0.400	x	1.125	0.485	x	0.950	0.562	x	1.125
0.400	x	2.060	0.490	x	3.365	0.562	x	1.205
0.400	x	2.100	0.497	x	0.622	0.570	x	0.655
0.400	x	2.200	0.500	x	0.640	0.573	x	1.062
0.406	x	0.806	0.500	x	1.000	0.575	x	1.750
0.406	x	1.688	0.500	x	1.125	0.580	x	0.750
0.406	x	2.000	0.500	x	1.250	0.580	x	0.760
0.406	x	2.250	0.500	x	1.370	0.585	x	0.715
0.412	x	0.580	0.500	x	2.000	0.592	x	1.625
0.415	x	0.435	0.500	x	2.380	0.593	x	0.775
0.418	x	0.707	0.505	x	0.605	0.600	x	2.000
0.420	x	0.600	0.505	x	0.606	0.625	x	1.240
0.420	x	0.643	0.510	x	0.710	0.625	x	1.750



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Rectangles over .350 (continued)

0.625	x	2.000	0.812	x	0.862
0.648	x	0.793	0.820	x	1.200
0.648	x	1.095	0.840	x	2.000
0.655	x	1.100	0.850	x	1.270
0.656	x	1.100	0.850	x	1.970
0.655	x	1.100	0.875	x	1.070
0.670	x	1.900	0.875	x	1.875
0.687	x	1.437	0.875	x	2.500
0.690	x	1.125	0.890	x	1.000
0.700	x	1.140	0.890	x	1.080
0.710	x	1.100	0.900	x	1.220
0.710	x	3.500	0.906	x	1.859
0.720	x	1.420	0.910	x	3.250
0.740	x	1.050	0.980	x	2.108
0.750	x	0.781	1.000	x	1.125
0.750	x	0.812	1.000	x	2.000
0.750	x	1.000	1.030	x	1.750
0.750	x	1.030	1.066	x	1.631
0.750	x	1.100	1.077	x	1.232
0.750	x	1.350	1.080	x	2.610
0.750	x	2.310	1.640	x	2.080
0.777	x	1.036	1.870	x	2.120
0.779	x	0.865	1.930	x	3.030
0.797	x	0.985	2.093	x	2.118



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Rectangles with Radius Corners

0.121	x	0.687	031 Radius
0.130	x	0.150	030 Radius
0.134	x	0.440	047 Radius
0.187	x	0.500	032 Radius
0.203	x	0.390	062 Radius
0.203	x	0.440	047 Radius
0.220	x	1.320	062 Radius
0.280	x	0.625	062 Radius
0.300	x	1.000	093 Radius 2-Corners
0.375	x	1.375	062 Radius
0.375	x	1.670	125 Radius
0.380	x	1.000	120 Radius
0.418	x	0.828	062 Radius
0.438	x	1.524	060 Radius
0.440	x	2.720	062 Radius
0.448	x	1.116	062 Radius
0.449	x	1.134	132 Radius
0.450	x	0.800	062 Radius
0.450	x	0.806	132 Radius
0.468	x	1.000	120 Radius
0.490	x	2.500	125 Radius
0.496	x	3.246	060 Radius
0.500	x	0.854	032 Radius
0.500	x	1.187	032 Radius
0.500	x	1.250	062 Radius
0.500	x	1.250	093 Radius
0.500	x	1.625	062 Radius
0.514	x	0.750	060 Radius
0.515	x	0.765	015 Radius
0.550	x	1.250	093 Radius
0.560	x	1.050	125 Radius
0.560	x	1.050	160 Radius



Century Metal Products, Inc.

181 Stedman Street #9, Lowell, Massachusetts 01851-5209

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Rectangles with Radius Corners (continued)

0.592	x	1.965	125 Radius
0.600	x	3.600	062 Radius
0.625	x	1.000	156 Radius
0.625	x	2.250	093 Radius
0.750	x	0.820	050 Radius
0.750	x	1.250	093 Radius
0.750	x	2.000	250 Radius
0.780	x	1.210	187 Radius
0.787	x	1.080	187 Radius
0.794	x	1.084	156 Radius
0.800	x	1.100	140 Radius
0.830	x	1.210	062 Radius
0.845	x	1.675	060 Radius
0.860	x	1.200	032 Radius
0.860	x	1.830	070 Radius
0.875	x	1.200	060 Radius
0.875	x	1.200	250 Radius
0.885	x	1.200	234 Radius
0.890	x	1.200	187 Radius
0.895	x	1.188	218 Radius
0.910	x	1.210	062 Radius
0.910	x	1.210	234 Radius
0.910	x	1.295	235 Radius
0.920	x	1.210	218 Radius
0.930	x	2.000	093 Radius
0.940	x	4.000	125 Radius
0.984	x	1.284	156 Radius
0.992	x	2.990	125 Radius
1.000	x	1.300	281 Radius
1.000	x	2.750	250 Radius
1.060	x	2.000	062 Radius
1.120	x	2.610	125 Radius
1.125	x	4.000	125 Radius



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Rectangles with Radius Corners (continued)

1.146	x	1.244	110 Radius
1.250	x	2.343	125 Radius
1.250	x	2.880	062 Radius
1.250	x	3.250	250 Radius
1.270	x	2.350	125 Radius
1.656	x	3.500	062 Radius
2.250	x	3.100	156 Radius



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D			DD		
0.094	x	0.125	0.113	x	0.125
0.156	x	0.250	0.125	x	0.230
0.211	x	0.252	0.132	x	0.240
0.234	x	0.250	0.187	x	0.234
0.235	x	0.266	0.194	x	0.250
0.241	x	0.258	0.220	x	0.266
0.267	x	0.285	0.244	x	0.266
0.290	x	0.320	0.250	x	0.328
0.322	x	0.375	0.275	x	0.314
0.329	x	0.360	0.284	x	0.312
0.330	x	0.380	0.321	x	0.402
0.340	x	0.390	0.329	x	0.360
0.343	x	0.375	0.345	x	0.375
0.350	x	0.380	0.360	x	0.400
0.350	x	0.391	0.375	x	0.562
0.360	x	0.390	0.390	x	0.440
0.390	x	0.440	0.420	x	0.480
0.404	x	0.437	0.430	x	0.500
0.420	x	0.440	0.450	x	0.507
0.432	x	0.455	0.450	x	0.515
0.437	x	0.505	0.460	x	0.500
0.440	x	0.468	0.465	x	0.515
0.450	x	0.507	0.468	x	0.503
0.468	x	0.500	0.470	x	0.515
0.468	x	0.515	0.476	x	0.555
0.470	x	0.512	0.500	x	0.560
0.470	x	0.520	0.531	x	0.562
0.472	x	0.504	0.540	x	0.594
0.478	x	0.506	0.540	x	0.625
0.488	x	0.515	0.546	x	0.640
0.505	x	0.635	0.550	x	0.625



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D			DD		
0.516	x	0.531	0.555	x	0.580
0.517	x	0.555	0.562	x	0.625
0.545	x	0.566	0.625	x	0.750
0.555	x	0.580	0.640	x	0.750
0.559	x	0.594	0.641	x	0.766
0.573	x	0.630	0.650	x	0.750
0.580	x	0.610	0.650	x	0.765
0.590	x	0.629	0.650	x	0.800
0.596	x	0.682	0.670	x	0.750
0.600	x	0.641	0.675	x	0.780
0.664	x	0.702	0.687	x	0.570
0.712	x	0.750	0.687	x	0.766
0.726	x	0.756	0.700	x	0.750
0.728	x	0.761	0.766	x	0.687
4.600	x	5.240 *	0.770	x	0.875
			0.797	x	0.875
			0.860	x	1.000
			1.000	x	1.093
			1.000	x	1.125
			1.000	x	1.188
			1.125	x	1.344
			1.125	x	1.375
			1.156	x	1.250
			1.200	x	1.375
			5.750	x	6.060 *

* Not for N/C Use



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Rounds

All fractions up to one inch available in addition to the following

"B" Station

0.104	0.173	0.254	0.368	0.719
0.106	0.180	0.256	0.386	0.825
0.122	0.182	0.257	0.390	0.937
0.124	0.187	0.271	0.397	1.000
0.128	0.189	0.275	0.400	
0.130	0.191	0.290	0.410	
0.140	0.196	0.292	0.418	
0.142	0.213	0.302	0.460	
0.152	0.238	0.315	0.506	
0.147	0.239	0.339	0.578	
0.164	0.243	0.344	0.609	
0.166	0.249	0.345	0.703	
0.169	0.252	0.351	0.718	

"C" Station

1.015	1.093	1.210	1.344
1.031	1.125	1.250	1.375
1.062	1.129	1.281	1.380
1.070	1.156	1.302	1.406
1.080	1.187	1.312	1.500

"D" Station

1.550	1.665	1.765	2.000
1.562	1.687	1.812	
1.625	1.703	1.875	
1.630	1.718	1.937	
1.640	1.750	1.963	



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Rounds (continued)

All fractions up to one inch available in addition to the following

"E" Station

2.050	2.156	2.218	2.396
2.062	2.187	2.250	2.460
2.094	2.062	2.312	2.500
2.125	2.200	2.375	2.562

"F" Station

2.532	2.812	3.125	3.500
2.625	2.875	3.250	
2.687	2.890	3.400	
2.750	3.000	3.437	

"H" Station

3.750	4.000	4.060
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"J" Station (Not for N/C use)

4.125	4.375	4.800
4.250	4.500	5.895
4.360		



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Special Shapes

"Squares"

.125	.480	0.953
.156	.500	0.970
.176	.531	1.000
.218	.545 with .062 Radius	1.000 with .250 Radius
.250	.550	1.125
.259	.560	1.240 with .250 Radius
.280	.565	1.250
.281	.567	1.312
.287	.620	1.375
.300	.620 with .090 Radius	1.375 with .125 Radius
.312	.625	1.375 with .250 Radius
.328	.642 with .031 Radius	1.400
.353	.700	1.500
.370	.720	1.750
.375	.744	2.000
.379	.750	2.000 with .125 Radius
.390	.774	2.000 with .187 Radius
.406	.850 with .125 Radius	2.000 with .250 Radius
.437	.875	2.237
.465	.937	2.250 with .030 Radius
.470	.950	3.000 with 1.000 Radius



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Special Shapes (continued)

"Keyway"

.250 x .025 x .042
.262 x .042 x .030
.473 x .035 x .065 Inside Key
.629 x .039 x .052 Inside Key
.370 x .029 x .065 Inside Key

"Special"

0.170 Hex
0.250 Hex
0.300 Hex
0.562 Hex
1.250 Hex
.340 x .640 x .120 Dimple (036 CRS)
.500 x .125 Dimple
1.000 x .187 Dimple
.125 x .833 Sq/End & Obround/End
.500 x 1.000 Sq/End & Obround/End

"Beading Tool"

.200 Wide x .500 Minimum

"Knock-Out"

.87 & 1.12 Double

"Louver"

1/4 x 1" with 1/4" spacing
3/8 x 2-1/2 with 1/4" spacing
3/8 x 3-1/4 with 1/4" spacing
3/8 x 3-1/2 with 1/4" spacing
1/2 x 3 with 1/4" spacing
1/2 x 4 with 1/2" spacing
5/8 x 2 SPECIAL with 3/16" spacing
1/2 x 3-1/4 to 7" with 5/16" spacing
3/8 with 1/4" spacing

"Extrusion/Self Tapping"

.100 Dia
.128 Dia
.171 Dia

"Countersink Tooling"

82 Degrees
90 Degrees
100 Degrees
120 Degrees



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Special Shapes (continued)

"Trapezoid (RS-232)"

.293 x .500 (10 degree) Sharp Corners, Universal
 .375 x 1.560 (5 degree) Sharp Corners
 .437 x 1.619D (10 degree) with .132 Radius Corners
 .445 x .875B (10 degree) with .062 Radius Corners
 .449 x .809C (10 degree) Sharp Corners
 .449 x 1.674D (10 degree) with .132 Radius Corners
 .450 x .752B (10 degree) with .031 Radius Corners
 .455 x .875D (10 degree) with .062 Radius Corners
 .450 x .806B (10 degree) with .132 Radius Corners
 .450 x 1.134C (10 degree) with .132 Radius Corners
 .452 x 1.687D (10 degree) with .093 Radius Corners
 .460 x .800B (10 degree) with .140 Radius Corners
 .474 x 1.000C (10 degree) with .093 Radius Corners
 .500 x 1.000C (10 degree) with .140 Radius Corners
 .513 x .844B (10 degree) with .090 Radius Corners
 .691 x 1.792D (10 degree) Sharp Corners
 .700 x 1.600D (10 degree) with .210 Radius Corners

"Card Guide Tools"

.875 Card Guide Tool (.074 Wide) (FOR .060 MAX MATERIAL)	V-3000	W-2040	C-2000
1.500 Card Guide Tool (.074 Wide) (FOR .060 MAX MATERIAL)	V-3000	W-2040	C-2000
2.000 Card Guide Tool (.074 Wide) (FOR .060 MAX MATERIAL)	V-3000	W-2040	C-2000
2.875 Card Guide Tool (.074 Wide) (FOR .060 MAX MATERIAL)	V-3000	W-2040	C-2000
3.000 Card Guide Tool (.074 Wide) (FOR .060 MAX MATERIAL)	V-3000	W-2040	
3.750 Card Guide Tool (.074 Wide) (FOR .060 MAX MATERIAL)	V-3000	W-2040	



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Special Shapes (continued)

"Radius"

4-Way .062 Radius (.125 Web) .250 overall (sketch A)
4-Way .062 Radius (.125 Web) .480 overall
4-Way .062 Radius (.250 Web) .375 overall (sketch G)
4-Way .070 Radius (.250 Web) .390 overall
4-Way .093 Radius (.062 Web) .415 overall
4-Way .100 Radius
4-Way .125 Radius (.062 Web) .475 overall
4-Way .125 Radius (.137 Web) 1.225 overall
4-Way .125 Radius (.250 Web) .500 overall (sketch D)
4-Way .156 Radius (.062 Web) .475 overall
4-Way .187 Radius (.125 Web) .720 overall
4-Way .187 Radius (.250 Web) .625 overall (sketch F) (C)
4-Way .187 Radius (.375 Web) 1.350 overall
4-Way .200 Radius (.125 Web) .800 overall
4-Way .250 Radius (.125 Web) .980 overall
4-Way .250 Radius (.250 Web) .750 overall (sketch B) (C)
4-Way .250 Radius (.375 Web) 1.475 overall
4-Way .500 Radius (.187 Web) 1.187 overall (D)
L-Shape .062 Radius (.062 Web)
L-Shape .125 Radius (.062 Web)
T-Shape .125 Radius (.100 Web)
T-Shape .125 Radius (.250 Web) (sketch E) (2)
T-Shape .250 Radius (.250 Web) (sketch C) (C) (2)



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Marking and Numbering

3/32" Marking Tool (9 Spaces)

1/8" Marking Tool "C.M.P." (Top & Bottom Stamp)

1/8" Marking Tool (9 Spaces) (2 top & 1 Bottom)

1/8" Numbering Tool (12 Spaces, Rolladex) .200 x 1.530

3/16" Marking Tool "C.M.P." (Top & Bottom Stamp) .200 x .610

Various Grounding Symbols

Tick Marking



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Blanking

"Punch Size"	"Die Size"
1.706	Square 1.716 Sqr
2.396	Diameter 2.400 Dia
3.990	Diameter 4.000 Dia
.370 x 3.600	Oval .380 x 3.610
.496 x 1.171	Oval .550 x 1.175
.496 x 1.871	Oval .500 x 1.875
.496 x 3.296	Oval .500 x 3.300
.774 x 3.215	Oval .787 x 3.228
.287 x .891	Rectangle .291 x .900
.358 x 1.786	Rectangle .380 x 1.808
.366 x 1.394	Rectangle .375 x 1.403
.370 x 1.533	Rectangle .380 x 1.543
.432 x .792	Rectangle .440 x .800
.434 x 1.284	Rectangle .450 x 1.300
.434 x 1.364	Rectangle .440 x 1.370
.452 x 2.982	Rectangle .470 x 3.000
.493 x 2.063	Rectangle .500 x 2.070
.494 x .686	Rectangle .500 x .692
.496 x 1.548	Rectangle .500 x 1.552
.496 x 3.365	Rectangle .500 x 3.375
.544 x 2.982	Rectangle .562 x 3.000
.585 x .715	Rectangle .620 x .750
.694 x 3.224	Rectangle .700 x 3.230
.697 x 2.127	Rectangle .700 x 2.130
.777 x 1.036	Rectangle .788 x 1.047
.790 x 1.115	Rectangle .800 x 1.125
.990 x 1.152	Rectangle 1.000 x 1.162
.990 x 1.280	Rectangle 1.000 x 1.290
.975 x 2.397	Rectangle 1.000 x 2.422



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Blanking (continued)

"Punch Size"	"Die Size"	
1.016 x 1.051	Rectangle	1.020 x 1.055
1.118 x 1.729	Rectangle	1.125 x 1.736
1.155 x 3.507	Rectangle	1.160 x 3.512
1.188 x 1.363	Rectangle	1.190 x 1.365
1.355 x 2.902	Rectangle	1.375 x 2.922
1.530 x 3.770	Rectangle	1.540 x 3.780
1.551 x 3.171	Rectangle	1.560 x 3.180
1.615 x 2.039	Rectangle	1.625 x 2.049
1.844 x 1.880	Rectangle	1.854 x 1.890
2.430 x 2.710	Rectangle	2.440 x 2.720
.608 x .998	Rectangle	.620 x 1.010 with .060 Radius
.990 x 3.090	Rectangle	1.000 x 3.100 with .125 Radius
1.212 x 1.232	Rectangle	1.230 x 1.250 with .063 Radius
1.244 x 1.744	Rectangle	1.250 x 1.750 with .120 Radius
1.694 x 2.394	Rectangle	1.700 x 2.400 with .125 Radius
1.694 x 2.744	Rectangle	1.700 x 2.750 with .120 Radius
1.990 x 3.490	Rectangle	1.996 x 3.496 with .250 Radius
2.490 x 2.865	Rectangle	2.500 x 2.875 with .060 Radius