



## Central Minnesota Tool

Precision Tooling, High Speed Metal Stamping, Injection Molding and Assembly

### **FACILITIES LIST**

#### ***DESIGN DEPARTMENT***

Unigraphics version 17.0

AutoCAD 2000 i

SURFCAM [will interface with Pro-ENGINEER]

DWG Files, ZIP, IGES, DXF, Step, Parasolid

#### ***PRODUCTION DEPARTMENT***

##### ***STAMPING FACILITY***

- 1 Bruderer BSTA 60-Ton Press (100—1,200 SPM). With Bruderer Feed
- 1 Bruderer BSTA 45-Ton Press (100—1,200 SPM). With Bruderer Feed
- 3 Bruderer BSTA 30-Ton Press (100—1,500 SPM). With Bruderer Feeds
- 3 Bruderer BSTA 23-Ton Press (100—800 SPM). With Bruderer Feeds
- 1 Bruderer BSTA 18-Ton Press (100—1,400 SPM). With Bruderer Feed
- 1 Minster model #P2-60-32 (75—300SPM)
- 1 Minster model #P2-30-30 (75—300 SPM)
- 2 15-Ton Perkins Presses (100—400 SPM)
- 2 Denison 5-Ton Hydraulic Multi-Presses
- 3 1-Ton Assembly Air Presses
- 1 A.P.P. T-1000 Autobagger with feeding conveyors and integral printers

##### ***MOLDING FACILITY***

- 1 Van Dorn 150-Ton Horizontal Injection Mold Press—8 oz. Barrel
- 3 Van Dorn 50-Ton Demag 50 ET Horizontal Injection Mold Press - 2.0 oz. Barrel, 1.5 oz. Barrel and .8 oz. Barrel
- 1 Mitsubishi 50-Ton Horizontal Mold Press, model 50MSS—2 oz. Barrel
- 1 Newbury 30-Ton Vertical Injection Mold Press, 4 Place Rotary Table - 2 oz. Barrel
- 1 Autojectors 40-Ton Horizontal Mold Press, model HCR-40, 4 Place Rotary Table—2 oz. Barrel

##### ***AUTOMATED ASSEMBLY***

- 1 Flexible Automated Assembly Cell. Capable of high speed robotic assembly with module plug-n-play tooling. See at [www.cmt-s.com](http://www.cmt-s.com)



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#### ***INSPECTION DEPARTMENT***

2 Kurt Check SPC Computer and Software Systems  
1 Optical Gaging Products Video Measuring System  
Smart-Scope Model #FOV200 (20x—200x)  
1 ST-Industries Video Comparator (30x—120x)  
1 14" ST-Industries Optical Comparator (10x and 20x)  
1 14" MicroVu Spectra Optical Comparator with readouts  
4 Surface Plates Grade A  
3 Height Gages & Micrometers  
2 Chatillion Electronic Force Gages  
[Plus all necessary support equipment]

#### ***TOOLING DEPARTMENT***

1 HAAS VF2 CNC Mill with 3D surfacing capabilities  
1 Mitsubishi Wire EDM model SX10 (13.8" x 9.8" x 8.2" thick)  
1 Mitsubishi Wire EDM model DWC (11.8" x 9.8" x 6.6" thick)  
1 Agie Sink CNC Control EDM  
1 EDM hole popper  
1 Mitsui 6" x 12" Surface Grinder with readouts & Optidress  
1 Okamoto 6" x 12" Surface Grinder with readouts  
1 Okamoto 6" x 18" Surface Grinder with readouts  
1 Okamoto 10" x 20" Hydraulic Surface Grinder  
1 Kent 8" x 18" Hydraulic Surface Grinder  
2 Kent 6" x 14" Surface Grinder with readouts  
3 Vertical Milling Machines with digital readouts  
1 Thermolyne Heat Treat Furnace  
1 Hardinge Tool Room Lathe  
1 Toolmaker Microscope