



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
- 2 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



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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 Okomoto 6" x 12" Surface Grinder with readouts
- 1 Okomoto 6" x 18" Surface Grinder with readouts
- 1 Okomoto 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