

# DAVIS TOOL & DIE

## FACILITY AND MAJOR EQUIPMENT LIST

### PERSONNEL

- 63 Employees–Fenton Location
- 6 Engineers using: PRO–E, Unigraphics, and SolidWorks Software.
- 15 CNC Operators using: Mastercam Software
- 3 Programmers/modelers using: Delcam Powershape and Delcam Powermill Software

### OFFICE AND MANUFACTURING AREA

- 43,000 square feet (total building)
- 32,000 square feet (presently being used by DAVIS TOOL)

### CNC MILLING, AND DRILLING

- 1 Deckel Maho 70 eVolution 5 Axis Simultaneous–High Speed 18,000 RPM Machining Center (X=29.5”, Y=23.6”, Z=22.5”) with 770 pounds maximum table load.(January 2007)
- 1 Deckel Maho 50 eVolution 5 Axis Simultaneous–High Speed 18,000 RPM Machining Center (X=19.7”, Y=16.5”, Z=15.0”) with 441 pounds maximum table load.
- 2 Makino V55 High Speed–(14,000/20,000 RPM) Vertical Machining Centers
- 1 Makino a81–Horizontal Machining Center (X=35.4”, Y=31.5”, Z=35.4”)
- 1 Okuma MX60 HB–Horizontal Machining Center (X=39.4”, Y=31.5”, Z=32.0”)
- 1 OKK MCH600– Horizontal Machining Center (X=40.2”, Y=33.50”, Z=34.70”)
- 2 Okuma MC4VA–Vertical Machining Centers
- 1 Okuma MC50VA–Vertical Machining Center
- 1 Haas VF3 4 axis–Vertical Machining Center
- 1 Hurco BMC 4020 4 axis–vertical Machining Center
- 1 Fryer MB15 CNC–Vertical
- 1 Ikegai NB11 4.3” 5 Axis Horizontal Boring Mill  
(X=59.0”, Y=39.4”, Z=27.6”, Quill travel W=13.8”)  
Load Capacity: 11,000 pounds–Table and 5,500 pounds on rotating “B” Axis
- 1 Ikegai NB110T 4.3” 5 Axis Horizontal Boring Mill  
(X=78.7”, Y=63”, Z=63”, Quill travel W=24”)  
Load Capacity: 22,000 pounds–Table and 14,000 pounds on rotating “B” Axis

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### CNC TURNING

- 1 Okuma Cadet L1420 CNC Turning Center (Max. Diameter 14.7")
- 1 Okuma Crown-S CNC Turning Center (Max. Diameter 10.6")

### QUALITY ASSURANCE

- 1 Brown and Sharpe model MicroXcel PF765 DCC (direct computer control)  
3 axis Coordinate Measuring Machine. With PC DMIS software.  
Work capacity: X=32.5", Y=37", Z=22.5"
- 1 Brown and Sharpe model MicroXcel PFX DCC (direct computer control)  
3 axis Coordinate Measuring Machine. With PC DMIS software.  
Work capacity: X=18.0", Y=20.0", Z=16.0"
- 1 Sheffield model Cordax 1808 3 axis Coordinate Measuring Machine.  
Work capacity: X=23.62", Y=21.65", Z=15.75"
- 1 Gagemaster GM-3 Optical Comparator (10 x 1) 14.5" screen
- 1 Equotip (electronic Readout) Hardness Tester

### WIRE CUT EDM

- 1 Agie Progress 3-Maximum Workpiece 41.00" x 25.00" x 16.00"  
Machining Range-19.70" x 13.77 X 16.77"
- 1 Mitsubishi FX30K-Maximum Workpiece 51.20" x 31.50" x 18.00"  
Machining Range-29.52" x 19.70 X 18.00"

### EDM (CNC)

- 1 Agie Mondo Star 50, 100 amp (tank size 15" x 27.5" x 42.5")  
with "C" Axis & 16 position Tool Changer-System 3R Macro Tooling
- 1 Charmilles Roboform 550, 128 amp (tank size 19" x 31" x 40")  
with "C" Axis & 32 position Tool Changer-System 3R Macro Tooling
- 1 Charmilles Roboform 54P, 128 amp (tank size 18" x 28" x 42")  
with 6 position Tool Changer-System 3R Macro Tooling
- 1 Charmilles Roboform 84, 128 amp (tank size 19.7" x 37.4" x 57")
- 1 Cincinnati 18E23 XERMAC Power Supply for match burn (tank Size 17" x 36" x 40")
- 1 Elox-CNC Heritage 12, 100 amp for match burn (tank size 16" x 25.59" x 50")
- 1 Leblond-Makino EDM 65, 128 amp (tank size 18" x 30" x 43")
- 1 Leblond-Makino EDM EDNC 85W, 4 Axis-240 amp-(tank size 43" x 58" x 20")

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### GRINDERS-SURFACE

- 1 Okamoto-16" x 32" (auto feed)
- 1 Okamoto-6" x 18" (manual)
- 1 Okamoto-24" x 48" (auto feed and auto redress)

### MILLING TURNING AND DRILLING-CONVENTIONAL

- 2 Alliant Vertical Mills with Cross Slide Rotary Tables
- 2 Lagun Vertical Mills with Cross Slide Rotary Tables
- 1 Ikeda Radial Drill, 4 foot
- 1 Kao Radial Drill, 3 foot
- 1 Nardini 15" lathe

### HEAT TREAT

- 1 Rockwell, electric Stress Relief Furnace (1,000 degrees F. max.)

### MATERIAL HANDLING

- 5 Forklifts, Yale 6,000 lbs., Hyster 8,000 lbs. And Allis Chalmers 12,000 lbs. Namco (2,000 lbs.)
- 1 P & H 40 ft. Gantry Crane, 7 ton (2 and 5 ton hoists)
- 1 Abell & Howe, 2 ton Jib Crane
- 1 Newane, 3 ton Jib Crane
- 1 P & H Bridge Crane, 8 ton (3 and 5 ton hoists)
- 1 P & H Bridge Crane, 10 ton (10 ton hoist)
- 1 Custom Bridge Crane, 1 ton (1 ton hoist)

### MISCELLANEOUS

- 1 Andersen, VSW 5000 Custom Die/Parts washer
- 1 Marvel, Series 8 Mark II Band Saw
- 1 Marvel, Series 81A Band Saw
- 1 Grob, Band Saw
- 2 Zero, Shot Blaster
- 1 Hone, Sunnen Model MBB1650
- 3 Welders-Miller T.I.G.
- 1 Welder-Miller M.I.G.