

# **bunger & brown**

**engineering, inc.**

**Special Machines • Injection Molding • CNC and Micro Machining**

## **Equipment List**

Feb-2020

### **Precision CNC Machining - Mills**

Fanuc RoboDrill, 5th Axis Capabilities  
Hwacheon Vesta 1000 Vertical Machining Center  
Mori Seiki Duracenter 5 (2)  
Mori Seiki Duravertial 5100 (4)  
Mori Seiki Frontier Mill  
Mori Seiki MV45/40  
Mori Seiki MV-40B  
Additional Capabilities: 4th & 5th axis machining,  
milling of 20" x 40" plate

### **Precision CNC Machining - Lathes**

Miyano BNJ-51SY6 Automatic Lathe  
Mori Seiki CL-25A Lathe w/bar feeder  
Mori Seiki CL25B Lathe  
Mori Seiki SL25 w/bar feeder  
Mori Seiki SL-25Y w/bar feeder  
Mori Seiki SL-25Y/500 w/bar feeder  
Capabilities include Live Tooling and  
Multi-Spindle/Multi-Turret Turning.

### **High-Speed Micro Machining**

Creative Evolution HSD-500 Machining Center (5)  
Strathclyde HS-500 Machining Center (3)  
Defiance VTX-1 CNC Mill  
Defiance HS-12 Machining Center (2)

### **Swiss Turning**

Citizen A20 Type VI w/bar loader  
Citizen A220 Type VII w/bar loader  
Citizen Model C-16 Type VII w/bar loader  
Citizen Model L16 Type VI w/bar loader  
Citizen R07 Type VI w/bar loader  
Star-16 Type VII w/bar loader  
Citizen Model L12 w/bar loader (6)

CNC-207 (2.2020)

### **Injection Molding**

Sumitomo SE50DU, 50 tonne machine  
Sumitomo SE100D, 100 tonne machine  
Sumitomo SE180D, 180 tonne machine  
Toyo Si-90V-F200HCU, 90 ton machine  
Shot size ranges: 3 to 245 grams  
Resins: ABS, Nylon, PBT, PC, HDPE, LDPE, PET, PP,  
PPS, PSU, TPE PTFE, Glass Filled and Mineral Filled  
Automation & Sprue Pickers  
Secondary Operations: Assembly, Hot Staking, Machining

### **Manual Machining/Automation**

Bridgeport Mill 48" Table with 2 Axis Readout  
Clausing Kondia FV1-48VS08 Mill, Model FV300 (2)  
Hardinge Precision Toolroom Lathe HLVH-1520  
Hwacheon HL-380 High Precision Conventional Lathe 15"  
Webb WL250 High Speed Lathe  
Chevalier Model FSG618M Surface Grinder  
Chevalier Precision Hand-Feed Surface Grinder  
Miller MIG Welder  
Syncrowave 350LX Welder w/fume extractor/positioner/chk  
Thermal Dynamics Plasma Cutter

### **Quality Assurance**

Hexagon Global S CMM, 27.5" x 39.3" x 25.9"  
Brown & Sharpe Global Performance 5-7-6 CMM, 500/700/500  
Starrett HDGC-2420-16 CMM, 20" x 24" x 16"  
QVI Smartscope Flash 500, 500 x 450 x 200mm, 250x mag  
ROI OMIS III 12 x 12, 12" x 12" Non Contact video, 400x mag  
Starrett Sigma HB400 Optical Comparator  
Mitutoyo QM-Height 350, 35mm Height Stand

### **Additional Support/Process Equipment Includes:**

Ultrasonic Cleaners  
Sand Blast Capabilities  
Heat Cure Capabilities  
Grinders/Sanders  
Sunnen Horizontal Hone

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