



## **Injection Molding**

### **Production / Prototyping / Sampling / Assembly:**

- 1 – NISSEI FNX 360 Hybrid 398 US Tons  
Shot Size: 34 oz  
Tie bar spacing (H x V) 28.9" x 28.9" (734mm x 734mm)
- 1 – TOSHIBA ISGN 250 US Tons  
Shot Size: 30 oz  
Tie bar spacing (H x V) 24" x 22" (610mm x 559mm)
- 1 – NISSEI FNX 180 Hybrid 197 US Tons  
Shot Size: 14.8 oz  
Tie bar spacing (H x V) 22" x 22" (559mm x 559mm)
- 1 – TOSHIBA ISGN 190 US Tons  
Shot Size: 19 oz  
Tie bar spacing (H x V) 22" x 20.1" (559mm x 510mm)
- 1 – TOSHIBA ISGN 150 US Tons  
Shot Size: 11.5 oz  
Tie bar spacing (H x V) 20" x 18" (508mm x 460mm)
- 2 – NISSEI FNX 110 Hybrid 123 US Tons  
Shot Size: 6.1 oz  
Tie bar spacing (H x V) 18.1" x 18.1" (460mm x 460mm)
- 1 – TOSHIBA ISGN 120 US Tons  
Shot Size: 6.5 oz  
Tie bar spacing (H x V) 18.1" x 16.1" (460mm x 410mm)
- 1 – Autojector Shuttle Press, 40 Tons  
Shot Size: 1.5 oz, 39" Rotary Table with 4 stations
  
- 1 – Portable clean room tent
- 3 – Colortronic colorblend dosing feeders
- 1 – 16 Zone manifold controller
- 5 – 12 Zone manifold controllers
- 5 – 8 Zone manifold controllers
- 2 – 4 Zone manifold controllers
- 1 – 7 Ton Chiller
- 1 – 2HP Portable Chiller

Material dryers and Thermolators for all presses



## **Laser Tool & Plastics Tool Room Equipment**

### **Mills:**

- 1 – CNC Mori Seike Machining Center, Travel 16" x 31" x 20"
- 1 – Kitamura-Mycenter HX500 Horizontal Machining Center, Travel 34.3" x 28" x 26"
- 1 – Micro Dynamics Tera 50V Vertical High Speed Machining Center, Travel 50" x 25" x 25"
- 2 – CNC Makino S56 Vertical High-Speed Machining Center, Travel 35" x 19" x 17"
- 1 – CNC Milling Machine, Travel 12" x 18"
- 3 – 2J Bridgeport Series 1 with digital readouts, Travel 12" x 30"

### **Lathes:**

- 1 – CNC Hyundai-Kia SKT 210SY High Speed Lathe Center with Y Axis and Live Action Tooling
- 1 – CNC Leadwell LTC20B Turning Center with 10" chuck. Turning capacity 11" Dia x 16" long
- 2 – Colchester Engine Lathes, 15" diameter x 50" length (381mm x 1270mm)

### **EDM:**

- 2 – CNC LeBlond Makino EDNC 43 Machining Centers with tool changer and C-axis, 60 amps  
Table 18" x 28" (457mm x 711mm), Travel 13.7" x 17.7" x 13.7" (348mm x 450mm x 348mm)  
Maximum workpiece weight 2,200 lbs (1000 kgf) Erowa Tooling
- 1 – CNC Makino SP43 Wire EDM
- 2 – Eltee Pulsitrons, 30 amps  
Travel 6" x 8" (152mm x 203mm) Extensive 3R tooling
- 1 – Hole Popper OCCAN technologies River 35 Hpt  
Travel 9.5" x 14.5" (241mm x 368mm)

### **Grinders:**

- 4 – Okamoto Surface Grinders, Travel 8" x 14" (203mm x 356mm)
- 2 – Harig Surface Grinders with wet capability, Travel 6" x 18" (152mm x 457mm)
- 1 – Boyar-Schultz Grinder, Travel 6" x 12" (152mm x 305mm)
- 1 – Moore Jig Grinder with digital readout, Travel 8" x 16" (203mm x 406mm)
- 1 – Okamoto Wet Surface Grinder, Travel 12" x 24" (305mm x 610mm)



## **Inspection Equipment**

All Equipment calibrated in compliance with MIL-STD-45662A

- 1 – OMIS II Optical measurement inspection system
- 1 – Numerex coordinate measuring machine with SPC software,  
Travel 16" x 20" x 12" (406mm x 508mm x 305mm)
- 2 – J & L Optical comparators Epic 114 with surface illumination  
Screen 14" (356mm) diameter, Magnification 20X, 31.25X & 62.5X
- 1 – Variable power stereo microscope
- 1 – Toolmakers Microscope with digital readout, Resolution 0.00005"  
Travel 2" x 4" (51mm x 102mm)
- 1 – Profilometer, numerous thread gauges for different sizes  
SPE-SPI surface finish standards
- 6 – Pin Gauge sets of varying size and manufacturer's
- 6 – Gauge block sets of varying size and manufacturer's
- 8 – Citizen CKG30 counting scales
- 1 – Mettler Toledo P120 measuring scale
- 12 – Carrerra Precision 8" digital calipers