



## FACILITIES LIST

### Multi Tasking Machines:

#### **1. Hyundai Kia SKT15LM CNC Lathe with C-Axis (New 2010):**

- |                            |                     |                           |
|----------------------------|---------------------|---------------------------|
| ◇ 15 HP                    | ◇ 6" Chuck          | ◇ 1.75" Dia. Bar Capacity |
| ◇ Long Bed with Live Tools | ◇ Fanuc OiT Control | ◇ Programmable Tail Stock |

#### **2. Hyundai Kia 250SY (New 2009):**

- |                                   |                        |                             |
|-----------------------------------|------------------------|-----------------------------|
| ◇ Main Spindle 10" 25 HP          | ◇ Sub Spindle 6" 15 HP | ◇ 12 Station Turret w/Multi |
| ◇ 7 Radial Live Tools (3 doubles) | ◇ 5 Axial Live Tools   | ◇ 7 Axis                    |
| ◇ Fanuc 18i Control               |                        |                             |

#### **3. Yama Seiki SW-22 Swiss Machining Center (New 2014):**

- |                        |                           |                            |
|------------------------|---------------------------|----------------------------|
| ◇ 10 HP                | ◇ 7000 RPM Spindle        | ◇ 12' Bar feeder Interface |
| ◇ Live Tools           | ◇ 1.26" Maximum Machining | ◇ Rigid Tapping            |
| ◇ Fanuc 31i-TB Control |                           |                            |

#### **4. Hyundai Wia 250TTSY (New 2009):**

- |                            |                                   |                       |
|----------------------------|-----------------------------------|-----------------------|
| ◇ Twin 10" Chucks          | ◇ Upper Live Turret A,B,C,Y Axis  | ◇ Twin 33 HP Spindles |
| ◇ Simultaneous Programming | ◇ Lower Live Turret A,B,C Axis    | ◇ 8 Axis + 1          |
| ◇ 24 Tool Stations         | ◇ 6 Radial Live tools (2 doubles) | ◇ 9 Axial Live Tools  |
| ◇ Fanuc 18i Control        |                                   |                       |

#### **5. Hyundai Wia 250TTSY (New 2012):**

- |                            |                                   |                       |
|----------------------------|-----------------------------------|-----------------------|
| ◇ Twin 10" Chucks          | ◇ Upper Live Turret A,B,C,Y Axis  | ◇ Twin 33 HP Spindles |
| ◇ Simultaneous Programming | ◇ Lower Live Turret A,B,C Axis    | ◇ 8 Axis + 1          |
| ◇ 24 Tool Stations         | ◇ 6 Radial Live tools (2 doubles) | ◇ 9 Axial Live Tools  |
| ◇ Fanuc 18i Control        |                                   |                       |

### Lathes:

#### **1. Doosan Puma Infracore CNC Lathe TL2000 (New 2007):**

- |                    |                              |                        |
|--------------------|------------------------------|------------------------|
| ◇ 25 HP            | ◇ 18iTB Control              | ◇ Double Turret        |
| ◇ 20 Tool Stations | ◇ 8.25" Kitagawa 3 Jaw Chuck | ◇ 145 PSI Coolant Pump |

#### **2. Doosan Puma 280 CNC Lathe Turning Center (New 2007):**

- |                        |                      |                        |
|------------------------|----------------------|------------------------|
| ◇ 30 HP                | ◇ 28" Turning Length | ◇ 3" Dia. Bar Capacity |
| ◇ Fanuc 21 ITB Control | ◇ 12" Chuck          | ◇ Turbo Conveyor       |

#### **3. Daewoo Puma 280 High Performance CNC Lathe Turning Center (New 2007):**

- |                        |                      |                        |
|------------------------|----------------------|------------------------|
| ◇ 30 HP                | ◇ 28" Turning Length | ◇ 3" Dia. Bar Capacity |
| ◇ Fanuc 21 ITB Control | ◇ 12" Chuck          | ◇ Turbo Conveyor       |

## FACILITIES LIST CONTINUED

### Lathes Continued:

#### **4. Daewoo Puma 400 LC High Performance CNC Lathe Turning Center (New 2005):**

- ◇ 50 HP
- ◇ Fanuc ITB Control
- ◇ Turbo Conveyor
- ◇ 88" Turning Length
- ◇ 145 PSI Coolant
- ◇ 6 ½" Dia. Bar Capacity
- ◇ 2039 ft/lbs of torque

#### **5. Doosan Puma 480 CNC Lathe Turning Center (New 2010):**

- ◇ 60 HP
- ◇ Fanuc OiTC Control
- ◇ 40" Turning Length
- ◇ 24" Chuck
- ◇ 6 ½" Dia. Bar Capacity
- ◇ Turbo Conveyor

#### **6. Leadwell T-5 CNC Lathe (New 2006):**

- ◇ 10 HP
- ◇ 16c Hydraulic Collet System
- ◇ 6" Hydraulic Chuck
- ◇ 8 Station Turret
- ◇ 1 5/8" Dia. Bar Capacity
- ◇ Fanuc OiTC Control

#### **7. Leadwell T-6 CNC Lathe (New 2010):**

- ◇ 15 HP
- ◇ 16c Hydraulic Collet System
- ◇ 6" Chuck
- ◇ 12 Station Turret
- ◇ 2" Dia. Bar Capacity
- ◇ Fanuc OiTD Control

#### **8. Leadwell T-6 CNC Lathe (New 2011)**

- ◇ 15 HP
- ◇ 16c Hydraulic Collet System
- ◇ 6" Chuck
- ◇ 12 Station Turret
- ◇ 2" Dia. Bar Capacity
- ◇ Fanuc Oi-TD Control

#### **9. Leadwell T-8 CNC Lathe (New 2007):**

- ◇ 25 HP
- ◇ 12 Station Turret
- ◇ Fanuc OiTC Control
- ◇ 10" Chuck
- ◇ Graphics Package
- ◇ 3" Dia. Bar Capacity
- ◇ Conversational Programming

#### **10. Leadwell T-8 CNC Lathe (New 2010):**

- ◇ 25 HP
- ◇ 12 Station Turret
- ◇ 10" Chuck
- ◇ Servo Power Tail Stock
- ◇ 3" Dia. Bar Capacity
- ◇ Fanuc OiTC Control

#### **11. Leadwell T-8 CNC Lathe (New 2011):**

- ◇ 25 HP
- ◇ 12 Station Turret
- ◇ 10" Chuck
- ◇ Programmable Tail Stock
- ◇ 3" Dia. Bar Capacity
- ◇ Fanuc OiTD Control

#### **12. Leadwell LTC-25CL CNC Lathe (New 2011):**

- ◇ 30HP
- ◇ 12 Station Turret
- ◇ 12" Chuck
- ◇ Fanuc OiTD Control
- ◇ 3" Dia. Bar Capacity

#### **13. Haas TL-2 Lathe Turning Center (New 2007):**

- ◇ 10 HP
- ◇ 3 Jaw 10" Adjust-True Chuck
- ◇ Manual Tail Stock
- ◇ Conversational Programming
- ◇ Quick Change Tool Post

#### **14. Haas TL-3W Lathe Turning Center (New 2010):**

- ◇ 30HP
- ◇ 3 Jaw 12" Chuck
- ◇ Manual Tail Stock
- ◇ Rigid Tapping
- ◇ Quick Change Tool Post

## FACILITIES LIST CONTINUED

### Lathes Continued:

#### **15. Doosan Puma 400 Turning Center– Model A (New 2012):**

- ◇ 50 hp
- ◇ 21” Power Chuck
- ◇ 6.5” Bar Capacity
- ◇ Conversational I-guide
- ◇ 12 Station Turret
- ◇ Fanuc 32i Control

#### **16. Victor 18” x 80” Engine Lathe (New 2000):**

- ◇ 7 ½ HP
- ◇ Topaz DRO
- ◇ 3-1/4” Dia. Bar Capacity
- ◇ 12” Adjust-True Chuck

#### **17. Victor 17” x 60” Engine Lathe (New 2006):**

- ◇ 7 ½ HP
- ◇ Topaz DRO
- ◇ 10” Chuck
- ◇ 2 ½” Dia. Bar Capacity

#### **18. Ganesh 20” x 80” Engine Lathe (New 2008):**

- ◇ 7 ½ HP
- ◇ Topaz DRO
- ◇ 3-1/4” Dia. Bar Capacity
- ◇ 12” Adjust-True Chuck

#### **19. Hardinge Tool Room Lathe, Model H.C.:**

- ◇ 5” Chuck
- ◇ Threading Capability
- ◇ 1-1/16” Dia. Bar Capacity
- ◇ 5-c Collet System

#### **20. Hardinge Turret Lathe – 8 Station Turret:**

- ◇ Miscellaneous Tools/Collets

### Mills:

#### **1. Leadwell V-30 CNC Mill (New 2007):**

- ◇ BT-40 Spindle Nose
- ◇ 30” x 20” x 24” Travel
- ◇ Program Nozzle
- ◇ All Standard Accessories
- ◇ 10,000 RPM Spindle
- ◇ Interfaced 4th Axis & Fanuc 01 MB Control
- ◇ 24 Station A.T.C.
- ◇ Rigid Tap

#### **2. Doosan Infracore CNC Mill DMV 3016L (New 2007):**

- ◇ Fanuc OiMC Control
- ◇ 8,000 RPM
- ◇ Turbo Conveyor
- ◇ 4<sup>th</sup> Axis with 3 Jaw Chuck
- ◇ 30 Station A.T.C.

#### **3. Leadwell V-40 CNC Mill (New 2000):**

- ◇ 15 HP
- ◇ 233,000 Mega Byte Memory
- ◇ 40” x 20” x 24” Travel
- ◇ Fanuc 18-M Mold Maker Control
- ◇ 24 Station A.T.C.

#### **4. Leadwell V-40 CNC Mill, with Yuasa Interfaced 4<sup>th</sup> Axis (New 2001):**

- ◇ 15 HP
- ◇ 48,000 Mega Byte Memory
- ◇ 40” x 20” x 24” Travel
- ◇ Fanuc 21-M Control
- ◇ 24 Station A.T.C.

## FACILITIES LIST CONTINUED

### Mills Continued:

#### **5. Leadwell V-40iT CNC 4+1 Tilt/Rotary Machining Center (New 2011):**

- ◇ 25HP
- ◇ 24 Station A.T.C.
- ◇ Fanuc OiMD Control
- ◇ Cat 40 Spindle Nose
- ◇ 290 PSI Coolant thru the Spindle
- ◇ 12,000 RPM Spindle
- ◇ Dual Contact Spindle

#### **6. Leadwell V-50 CNC Vertical Machining Center, with Yuasa Interfaced 4<sup>th</sup> Axis (New 2004):**

- ◇ BT-40 Spindle Nose
- ◇ 10,000 RPM Spindle
- ◇ Programmable Coolant Nozzle
- ◇ 50" x 20" x 25" Travel
- ◇ 24 Station A.T.C.
- ◇ 200 PSI Coolant Pump
- ◇ Rigid Tap
- ◇ Fanuc 18M Control
- ◇ Coolant thru the Spindle
- ◇ Spindle Air Blow
- ◇ Helical Interpolation

#### **7. Leadwell V-60i CNC Mill (New 2007):**

- ◇ 30 HP
- ◇ 60" x 30" x 28" Travel
- ◇ 400 PSI Coolant Pump
- ◇ All Standard Accessories
- ◇ 10,000 RPM Spindle
- ◇ Fanuc 01MB Control
- ◇ 24 Station A.T.C.
- ◇ Rigid Tap
- ◇ Coolant thru Spindle

#### **8. Leadwell MCV-1500i CNC Vertical Machining Center (New 2011):**

- ◇ 35 HP
- ◇ 60" x 30" x 28" Travel
- ◇ 300 PSI Coolant Pump
- ◇ Cat 50 Spindle
- ◇ 8,000 RPM Spindle
- ◇ Fanuc 18i-MB Control
- ◇ 30 Station A.T.C.
- ◇ Coolant thru Spindle

#### **9. Okuma MX-45VAE Vertical Machining Center (New 2012):**

- ◇ 10 HP
- ◇ 8,000 RPM Spindle
- ◇ 30" x 18" x 17" Travel
- ◇ Coolant thru Spindle
- ◇ 20 Station A.T.C.
- ◇ OSP7000M Control

#### **10. Okuma MX-45VAE Vertical Machining Center (New 2012):**

- ◇ 10 HP
- ◇ 8,000 RPM Spindle
- ◇ 30" x 18" x 17" Travel
- ◇ Coolant thru Spindle
- ◇ 20 Station A.T.C.
- ◇ OSP7000M Control

#### **11. Mitsubishi M-H4B/16 Horizontal Machining Center (New 2000):**

- ◇ 30 HP
- ◇ 12,000 RPM Spindle
- ◇ Rigid Tapping
- ◇ 25.6" x 25.6" x 25.6" Travel
- ◇ 15.7" x 15.7" Pallet Size
- ◇ Meldas CNC Control
- ◇ 40 Station A.T.C.
- ◇ Coolant thru Spindle

#### **12. DMG DMU50eV0 Linear 5 Axis Machining Center (New 2008):**

- ◇ 22 HP
- ◇ 18,000 RPM Spindle
- ◇ 19.7" x 17.7" x 15.7" Travel
- ◇ 1000 psi Coolant thru Spindle
- ◇ 16 Station A.T.C.
- ◇ Siemens 8480D Control

#### **13. Haas TM-2 Tool Room Vertical Machining Center (New 2008):**

- ◇ 10 HP
- ◇ CNC Control with 15 Series Software
- ◇ 30" x 16" x 16" Travel
- ◇ 10 Station A.T.C

#### **14. (2) – Bridgeport Type Mills:**

- ◇ 2 HP
- ◇ Power Feed in "X" & "Y"
- ◇ 9" x 42" Table
- ◇ One with AC Prodrive
- ◇ Topaz DRO

## FACILITIES LIST CONTINUED

### Mills Continued:

#### **15. Acra AM3 Milling Machine with AC Prodrive with 4" Riser (New 2007):**

<> 3 HP  
<> 10 x 54 Table  
<> Power feed in 3 Axis  
<> Newall C80 DRO Read Out  
<> Power Draw Bar

#### **16. Acra AM3 Milling Machine with AC Prodrive (New 2007):**

<> 3 HP  
<> 10 x 54 Table  
<> Power feed in 2 Axis  
<> Newall C80 DRO Read Out  
<> Power Draw Bar

#### **17. Acer E-Mill**

<> 3HP  
<> 9" x 42" Table  
<> Power Feed in 3 Axis

### EDM Machines:

#### **1. Makino SP-64 CNC Wire EDM Machine (New 2008):**

<> Automatic Wire Threading  
<> 36.6" x 26.7" Table Size

#### **2. Makino DUO43 CNC Wire EDM Machine (New 2011):**

<> Automatic Wire Threading  
<> 27.9" x 22" Table Size

#### **3. Makino EDAF2 CNC EDM Plunger (New 2011):**

<> C-Axis MR Workhead  
<> 16 Electrode Magazine A.T.C.

#### **4. Japax DP25 EDM Sinker:**

<> 10.750" x 8.750" x 7" Travel  
<> 50 Amps Max.

#### **5. Charmilles EDM Sinker:**

<> 12.25" x 7.9" x 13.75" Travel  
<> 32 Amps Max.

### Gun Drill:

#### **Dadson Model DS1042-DL Gun Drilling Machine (New 2007):**

<> Bed Type  
<> Hyper Drill Sharpening Fixture with Diamond Wheel  
<> Drill Sizes 1/16" to 1 1/4" Dia.  
<> Drill Depth 42"

### Plasma:

#### **CNC Plasma Cutter (New 2010):**

<> Digital Height Control  
<> PlasmaCAM Design Edge Software  
<> Optical Encoder  
<> Closed-loop Servo Controller



## **FACILITIES LIST CONTINUED**

### **Programming Systems:** (Programming capabilities are connected to all CNC machines.)

1. Full Master Cam X8
2. Full Solid Works 2015
3. Cimco 6.0 Editor
4. Gage Maker

### **Inspection Equipment:**

1. Gagetrak Calibration Software
2. Brown & Sharpe Micro-Hite 600
3. Brown & Sharpe Tesa-hite 600
4. 2 - Brown & Sharpe Tesa-hite 700
5. 48" x 72" Granite Surface Plate
6. 24" x 48" Granite Surface Plate
7. 24" x 36" Granite Surface Plate
8. 36" x 48" Granite Surface Plate
9. Gage Block Sets 81 pc Grade 2 & 3
10. 7 pc Gage Block Long
11. Scherr-Tumico 14" Optical Comparator with a Quadra-Check Digital Readout
12. Clark Hardness Tester
13. 2 - Mitutoyo Profilometer
14. Mitutoyo 0" - 4" Bench Micrometer
15. Pratt & Whitney Thread Wires 4-80 TPI
16. Thread Plugs & Rings as Required
17. O.D. Micrometers 0-12"
18. Blade Micrometers 0-11"
19. Dial Bore Gages 0.4-6.00
20. Bore Micrometers 0.425 - 4.00
21. Bore Micrometers .150 - 4.00
22. Sunnen Precision Gage 0.700 - 1.500
23. 2 Pin Gage Set .011 - 1.000
24. 1 Pin Gage Set .011 - .625
25. 1 Pin Gage Set .0615 - .6255
26. Calipers, Indicators, Chamfer Gages, Radius Gages, Etc.
27. Scherr-Tumico 20" Optical Comparator with electronic digital readout