**calmax technology inc. facility list**

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### ***NEW*** DMU50 DECKEL MAHO 5 AXIS UNIVERSAL MILLING MACHINE

<table>
<thead>
<tr>
<th>Machine</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECKEL MAHO-DMU 50</td>
<td>1 EACH</td>
<td>TRAVEL 19.7”X17.7”X15.7” 18,000 RPM SPINDLE 60 TOOL CHANGER DMG CONTROL</td>
</tr>
</tbody>
</table>

### A55 HORIZONTAL CELL MACHINING CENTER 38 PALLET CAPACITY

<table>
<thead>
<tr>
<th>Machine</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAKINO-A55 DELTA</td>
<td>2 EACH</td>
<td>Travel: 22.00” x 22.00” x 22.00” 14000-RPM Spindle 208 Tool Magazine (ATC) A2 Makino Control 1° Indexing Table</td>
</tr>
<tr>
<td>MAKINO-A55 DELTA</td>
<td>1 EACH</td>
<td>Travel: 22.00” x 22.00” x 22.00” 14000-RPM Spindle 208 Tool Magazine (ATC) A2 Makino Control Full 4th Axis</td>
</tr>
<tr>
<td>MAKINO-A55E</td>
<td>1 EACH</td>
<td>Travel: 22.00” x 22.00” x 22.00” 14000-RPM Spindle 228 Tool Magazine (ATC) A2 Makino Control Full 4th Axis</td>
</tr>
</tbody>
</table>

### A88 HORIZONTAL CELL MACHINING CENTER 12 PALLET CAPACITY

<table>
<thead>
<tr>
<th>Machine</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAKINO-A88</td>
<td>1 EACH</td>
<td>Travel: 35.4” x 31.5” x 38.2” 12000-RPM Spindle 244 Tool Magazine (ATC) B2 Makino Control Full 4th Axis</td>
</tr>
<tr>
<td>MAKINO-A88</td>
<td>1 EACH</td>
<td>Travel: 35.4” x 31.5” x 38.2” 12000-RPM Spindle 244 Tool Magazine (ATC) B2 Makino Control Full 5th Axis</td>
</tr>
</tbody>
</table>
A77 HORIZONTAL CELL MACHINING CENTER 12 PALLET CAPACITY

**MAKINO-A77** (3 EACH)  
Travel: 31” x 29” x 26”  
12000-RPM Spindles

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**HORIZONTAL MACHINING CENTER**

**MATSUURA MAM-500HG-PC11** (1 EACH)  
Travel: 19.5” x 18.5” x 17.7”  
15000-RPM Spindle  
Fanuc 18iM Control  
Full 4th Axis

**MATSUURA ES-450HII-PC5** (1 EACH)  
Travel: 17.5” x 15.7” x 15.7”  
15000-RPM Spindle  
Fanuc 18iM Control  
Full 4th Axis

**MATSUURA ES-450H** (2 EACH)  
Travel: 17.5” x 15.7” x 15.7”  
10000-RPM Spindle  
Fanuc 18iM Control  
Full 4th Axis

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**CNC VERTICAL MILL (SINGLE SPINDLE)**

**MAKINO S56** (4 EACH)  
Travel: 35.4” x 19.4” x 17.7”  
13000-RPM Spindle  
Fanuc Control  
20 Tool Magazine

**MAKINO S56** (1 EACH)  
Travel: 35.4” x 19.4” x 17.7”  
13000-RPM Spindle  
Fanuc Control  
30 Tool Magazine

**MAKINO S33** (1 EACH)  
Travel: 25.6” x 19.7” x 17.7”  
13000-RPM Spindle  
Fanuc Control  
20 Tool Magazine

**MAKINO S33** (1 EACH)  
Travel: 25.6” x 19.7” x 17.7”  
13000-RPM Spindle
**MATSUURA MC-510V**

- 1 EACH
- Travel: 20.0” x 14.0” x 18.1”
- 8000-RPM Spindle
- Yasnc I-80 Control

**MATSUURA MC-600VF**

- 3 EACH
- Travel: 23.6” x 16.1” x 18.5”
- 8000-RPM Spindle
- Yasnc I-80 Control

**MATSUURA MC-800VF**

- 1 EACH
- Travel: 31.5” x 17.3” x 19.1”
- 8000-RPM Spindle
- Yasnc I-80 Control

**HAAS VF-2SSYT**

- 3 EACH
- Travel: 30.0” x 20.0” x 20.0”
- 12000-RPM Spindle
- HAAS Control
- Visual Code Probing Systems
- 24 Tool Magazine

**HAAS VF-3SSYT**

- 1 EACH
- Travel: 40.0” x 26.0” x 25.0”
- 12000-RPM Spindle
- HAAS Control
- Visual Code Probing Systems
- 40 Tool Magazine

**HAAS VF9**

- 2 EACH
- Travel: 84.0” x 40.0” x 30.0”
- 7500 RPM Spindle Speed
- HAAS Control
- 20 HP
- 24 Tool Magazine
### CNC LATHE DEPARTMENT

<table>
<thead>
<tr>
<th>Model</th>
<th>Quantity</th>
<th>Maximum Diameter</th>
<th>X-axis Travel</th>
<th>Z-axis Travel</th>
<th>Y-axis Travel</th>
<th>Drive System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MORI SEIKI NL2500SY/700</strong></td>
<td>(1 EACH)</td>
<td>14”</td>
<td>10.2”</td>
<td>31.3”</td>
<td>3.9 &lt;±2.0”</td>
<td>Maximum Diameter: 14”</td>
</tr>
<tr>
<td><strong>NAKAMURA TOME TMC-400</strong></td>
<td>(1 EACH)</td>
<td>22”</td>
<td></td>
<td></td>
<td></td>
<td>With CNC Tail Stock / 3” Bar Capacity</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>40 H.P. / 3500-RPM Spindle</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Fanuc 18TA Control</td>
</tr>
<tr>
<td><strong>NAKAMURA SC 300</strong></td>
<td>(1 EACH)</td>
<td>14”</td>
<td></td>
<td></td>
<td></td>
<td>With CNC Tail Stock / 2.5” Bar Capacity</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>30 H.P. / 3500-RPM Spindle</td>
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<td></td>
<td></td>
<td>Fanuc 18TA Control</td>
</tr>
<tr>
<td><strong>NAKAMURA SC 250 M</strong></td>
<td>(1 EACH)</td>
<td>10” (Milling Option)</td>
<td></td>
<td></td>
<td></td>
<td>With CNC Tail Stock / 2.5” Bar Capacity</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>25 H.P. / 4500-RPM Spindle</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td>Fanuc 21iT Control</td>
</tr>
<tr>
<td><strong>NAKAMURA SC 250</strong></td>
<td>(1 EACH)</td>
<td>10”</td>
<td>2.5” Bar Capacity</td>
<td></td>
<td></td>
<td>25 H.P. / 4500-RPM Spindle</td>
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<tr>
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<td></td>
<td>Fanuc 21iT Control</td>
</tr>
<tr>
<td><strong>NAKAMURA SC 150 M</strong></td>
<td>(1 EACH)</td>
<td>6” (Milling Option)</td>
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<td>1.7” Bar Capacity</td>
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<td></td>
<td></td>
<td></td>
<td>15 H.P. / 4500-RPM Spindle</td>
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<td></td>
<td>Fanuc 21iT Control</td>
</tr>
<tr>
<td><strong>NAKAMURA TOME TMC-20-II</strong></td>
<td>(1 EACH)</td>
<td>9”</td>
<td>2” Bar Capacity</td>
<td></td>
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<td>15 H.P. / 4500-RPM Spindle</td>
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<td></td>
<td>Fanuc 18TA Control</td>
</tr>
<tr>
<td><strong>NAKAMURA TOME TMC-20-II M</strong></td>
<td>(2 EACH)</td>
<td>9” (Milling Option)</td>
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<td></td>
<td>2” Bar Capacity</td>
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<tr>
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<td></td>
<td></td>
<td>15 H.P. / 4500-RPM Spindle</td>
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<td>Fanuc 18TA Control</td>
</tr>
<tr>
<td><strong>NAKAMURA TOME TMC-20</strong></td>
<td>(1 EACH)</td>
<td>6”</td>
<td></td>
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<td>1.7” Bar Capacity</td>
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<tr>
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<td>15 H.P. / 3500-RPM Spindle</td>
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<tr>
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<td>Fanuc 18TA Control</td>
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<tr>
<td><strong>NAKAMURA TOME SLANT-JRL</strong></td>
<td>(1 EACH)</td>
<td>6”</td>
<td></td>
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<td></td>
<td>With CNC Tail Stock</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 H.P. / 4500-RPM Spindle</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Fanuc 18TA Control</td>
</tr>
</tbody>
</table>
CNC VTL

HYUNDAI-KIA SXT- V80R VTL (1 EACH) Maximum 31.5” Diameter

PROTOTYPE / MANUAL MILL AND LATHE DEPARTMENT

BRIDGEPORT MILL SERIES I (5 EACH) Travel: 12.0” x 28.0”
2.0 H.P. Variable Speed Spindle
Chromed Ways with B & L Acu-Rite II
Digital Read-Out

HARDINGE-HLV-DR (2 EACH) Super Precision
Inch/Metric Toolroom Lathe for
super-precise tolerances and fine
surface finishes.

CLAUSING-COLCHESTER 13” (1 EACH) Geared Head Lathe 13” x 40” with
Trav-Dial, inch and metric threading.

CLAUSING-COLCHESTER 15” (2 EACH) Geared Head Lathe 15” x 50” with
Trav-Dial, inch and metric threading.

MORI SEIKI 15” (1 EACH) Geared Head Lathe 15” x 50” with
Trav-Dial, inch and metric threading.

ADDITIONAL EQUIPMENT

STAR SV-20 (1 EACH) Screw Machine
8 Axis Machining

MITSUBISHI EDM FX20 K (3 EACH) Electro-Discharge Wire -
Cut Machining

MITSUBISHI EDM (1 EACH) PLUNGER EDM

WELD AND FABRICATION DEPARTMENT
TIG (GTAW)

STICK ARC (SMAW)

MIG (GMAW)

FLUX (FCAW)

ACCUSHEAR 10 FOOT SHEAR

HURCO 150 TON 10FT HYDRAULIC BRAKE

MILLER 350 SYNCROWAVE

ESAB 460 PULSE DUAL 4HD SET UP FOR MIG, FLUX CORE AND MIG ALUMINUM WELDING

ASSEMBLY – CLEANROOM AND NON-CLEANROOM

SANTA CLARA, CA   Precision Equipment Assembly   1000 sq. ft.   Class 1000 Cleanroom

INSPECTION DEPARTMENT

Zeiss Contura CMM- Calmax has recently acquired a new Zeiss

MITUTOYO Crysta C – Apex C9206 CNC Coordinate Measuring Machine

Table travel: 35.62” x 78.93” x 23.81”

MITUTOYO Crysta C - Apex 9166 CNC Coordinate Measuring Machine

Table travel: 35.62” x 63.19” x 23.81”

MITUTOYO BH-710 Coordinate Measuring Machine (28” x 40”)
**MITUTOYO** Profile Projector PH-3500

48” x 60” Lab Grade Surface Plate

**MITUTOYO** Surftest Profilometer

**NOTE:**

1.) Calmax has over 300 pieces of inspection equipment, too numerous to list. All instruments calibrated and conform to our quality management system.

2.) For complete information about our inspection procedures, see Calmax Quality Manual.