

Enterprise Machining Co

Facilities List

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Measuring Tools:

Ziess C-400 CMM

- *X axis travel – 15”*
- *Y axis travel – 18”*
- *Z axis travel – 12”*
- *Renishaw MIP indexable probe head*
- *Accuracy .00005”*
- *Programmable*
- *Manual operation*
- *Zeiss Calypso Software Upgrade in January 2013*
- *STATS output*

NUMEREX CMM

- *X axis travel – 13”*
- *Y axis travel – 12”*
- *Z axis travel – 8”*
- *Renishaw MIP indexable probe head*
- *Accuracy .00005”*
- *Programmable*
- *Manual operation*
- *Zeiss Calypso Software Upgrade in January 2013*
- *STATS output*

Zeiss Contrua G2 CMM

- *New in March 2013*
- *X axis travel – 26.6”*
- *Y axis travel – 39.4”*
- *Z axis travel – 23.6”*
- *VAST XXTTL3 Scanning Head*
- *Accuracy MPE = 1.8*
- *Programmable*
- *Automatic operation*
- *Zeiss Calypso Software*
- *STATS output*

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Turning Centers:

Doosan Lynx 220LSY

- *New in 2015*
- *6" Chuck Main, 4" Sub*
- *X axis travel – 8.07"*
- *Z axis travel – 22.0"*
- *B axis travel – 22.0"*
- *Spindle speed range – 40–6000 RPM*
- *24 Station turret*
- *Rapid in X axis – 1,181 IPM*
- *Rapid in Z axis – 1,417 IPM*

Doosan Lynx 220LC

- *New in September 2012*
- *6" Chuck*
- *Maximum turning diameter – 12.6"*
- *Maximum shaft length – 20.7"*
- *X axis travel – 6.9"*
- *Z axis travel – 21.6"*
- *Spindle speed range – 40–4000 RPM*
- *12 Station turret*
- *Rapid in X axis – 1,181 IPM*
- *Rapid in Z axis – 1,417 IPM*

DAEWOO PUMA 8HC CNC Turning Center with Fanuc OT-C Control

- *8.0" Chuck*
- *Maximum turning diameter – 14.6"*
- *Maximum shaft length – 20.9"*
- *X axis travel – 8.3"*
- *Z axis travel – 21.7"*
- *Spindle speed range – 40-4000 RPM*
- *12 Station turret*
- *Rapid in X axis – 480 IPM*
- *Rapid in Z axis – 630 IPM*

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DAEWOO PUMA 10HC CNC Turning Center with Fanuc OT-C Control

- 12" Chuck
- Maximum turning diameter – 14.6"
- Maximum shaft length – 20.9"
- X axis travel – 8.3"
- Z axis travel – 21.7"
- Spindle speed range – 35-3500 RPM
- 10 Station turret
- Rapid in X axis – 480 IPM
- Rapid in Z axis – 630 IPM
- One of these machines is equipped with an LNS bar feeding system with 12 foot bar length capacity and parts catcher.

DAEWOO PUMA 12-LB CNC Turning Center with Fanuc OT-C Control

- 15" Chuck
- Maximum turning diameter – 18.89"
- Maximum shaft length – 40"
- X axis travel – 10.02"
- Z axis travel – 41"
- Low and High range
- Spindle speed range – 12-2500 RPM
- 10 Station turret
- Rapid in X axis – 700 IPM
- Rapid in Z axis – 630 IPM

DAEWOO PUMA V15 CNC Vertical Turning Center

- 21" Chuck
- Maximum turning diameter – 25"
- Maximum shaft length – 25"
- X axis travel – 13.8"
- Z axis travel – 26.8"
- Spindle speed range – 25-2500 RPM
- 65 Horsepower motor
- 8 Station turret
- Rapid in X axis – 470 IPM
- Rapid in Z axis – 630 IPM

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Daewoo Puma 300MSC Sub Spindle and Live tooling Turning Center with Fanuc Control

- 12" Chuck Main, 6" Sub
- Maximum turning diameter – 14."
- X axis travel – 9.8"
- Z axis travel – 26.8"
- Live Tool HP 7.5
- Spindle speed range – 60-4,500 RPM
- 12 Station turret all live
- Rapid in X axis – 945 IPM
- Rapid in Z axis – 945 IPM

Doosan Lynx 220A Turning Center with Fanuc Control

- 6.5" Chuck
- Maximum turning diameter – 12.6"
- Maximum shaft length – 12.7"
- X axis travel – 6.9"
- Z axis travel – 13"
- Low and High range
- Spindle speed range – 60-6,000 RPM
- 12 Station turret
- Rapid in X axis – 1,181 IPM
- Rapid in Z axis – 1,417 IPM

Tsugami S205 Swiss Turn with FMB 12' Bar Feeder

- New in February 2012
- 20mm Capability
- Spindle speed range – 200-12,000 RPM
- 8 OD Tools, 5 Live OD Tools
- Rapid in X axis – 945 IPM
- Rapid in Z axis – 1,260 IPM

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Machining Centers:

DAEWOO DMV-400 CNC Vertical Machining Center with Pallet Changer

- *X axis travel – 22”*
- *Y axis travel – 15.7”*
- *Z axis travel – 22.4”*
- *Spindle speed range – 10,000 RPM*
- *Rapid traverse rate X / Y / Z = 1181 / 1181 / 945*
- *30 Station tool storage*
- *Tool to tool change time – 1.5 sec.*
- *Chip to chip time – 4.5 sec.*
- *Pallet to pallet time – 5 sec.*
- *175 PSI through spindle coolant*
- *Rigid tap*
- *Mitsubishi Meldas 500M Control*

DAEWOO DMV-500 Diamond Series CNC Vertical Machining Center

- *Mitsubishi Meldas 500M Control*
- *X axis travel – 40”*
- *Y axis travel – 20”*
- *Z axis travel – 20.1”*
- *Spindle speed range – 80-8000 RPM*
- *Rapid in all axis’ – 788 IPM*
- *Tool to Tool time – 2 seconds*
- *Chip to Chip time – 3 seconds*
- *30 Station tool storage*
- *Through Spindle Coolant*
- *Rigid tap*

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Brother CNC Tapping Center TC-S2A

- *Brother Control with Conversational Programming*
- *X axis travel – 18.9”*
- *Y axis travel – 14.2”*
- *Z axis travel – 10.6*
- *Tool to Tool time – 1.1 seconds*
- *Chip to Chip time – 1.8 seconds*
- *Spindle speed range – 10-10000 RPM*
- *BT 30 Spindle taper*
- *14 Station tool storage*
- *Rigid tap*

Mazak Vertical Machining Center Nexus 410B-II with Mazatrol Matrix

- *X axis travel – 30.0”*
- *Y axis travel – 16.4”*
- *Z axis travel – 20.08”*
- *Full 4th axis*
- *Spindle speed range – 12,000 RPM*
- *Rapid in all axis’ – 1417 IPM*
- *Tool to Tool time – 1.3 seconds*
- *Chip to Chip time – N/A seconds*
- *30 Station tool storage*

Mazak Vertical Machining Center Nexus 510C with Mazatrol Matrix

- *New in 2010*
- *X axis travel – 41.0”*
- *Y axis travel – 20.0”*
- *Z axis travel – 20.0”*
- *Full 4th axis*
- *Spindle speed range – 12,000 RPM*
- *Rapid in all axis’ – 1417 IPM*
- *Tool to Tool time – 1.3 seconds*
- *Chip to Chip time – 3.0 seconds*
- *30 Station tool storage*

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Automatic Saw:

Cosen Automatic Saw C-320GNC

- *New in 2015*
- *Capacity – 12.8” Round or Square*
- *Speed – 66-328 fpm*
- *Saw Blade HP - 5*
- *Automatic blade breakage detection*

Robotic Welder:

Welding Cell with Fanuc ArcMate 100i Robot

- *New in 2015*
- *Capacity – 24” x 48”*
- *Lincoln Powerwave 455M Power Supply*

Enterprise Machining also has a wide variety of manual equipment, including, 3 lathes, 2 Bridgeport mills, power saw and a wire feed welder.