

# **A1 Engineering Facility List**

## **PRECISION MILLING**

3-axis Vertical CNC Mazak Nexus 510c-II Vertical center with 30 tool magazine:  
Travel X=41" Y=20" Z=20"

4-axis Vertical CNC Matsuura 800 machining center with 30 tool magazine:  
Travel X=31" Y=18" Z=20"

4-axis Vertical CNC Matsuura 1500 machining center with 40 tool magazine:  
Travel X=60" Y=30" Z=30"

5-axis Vertical CNC Matsuura 1000 machining center with 30 tool magazine:  
Travel X=41" Y=22" Z=22"

4-axis Vertical CNC Hurco VM2 machining center with 16 tool magazine:  
Travel X=40" Y=18" Z=18"

3-axis Vertical CNC Hurco VM20 machining center with 20 tool magazine:  
Travel X=40" Y=20" Z=18"

3-axis Vertical CNC Hurco VM10 machining center with 20 tool magazine:  
Travel X=26" Y=18" Z=18"

4-axis Vertical CNC Dynamyte machining center with 10 tool magazine:  
Travel X=14" Y=10" Z=14"

Five Bridgeport Vertical Mills & One Bridgeport Series II Special, Digital Readout Systems

## **PRECISION TURNING**

High Accuracy CNC Doosan 250 Turning Center, 12 tool station:  
10" chuck with 26" swing capability.

High Accuracy CNC Doosan 240 Turning Center, 12 tool station:  
10" chuck with 24" swing capability.

High Accuracy CNC Hitachi Seiki HT40G Turning Center, 12 tool station:  
15" chuck with 40" swing capability.

Citizen C-32 Swiss Machining Center with 12 foot bar loader.  
32mm (1.25") Diameter capacity

Three Webb & Moriseiki Engine Lathes of various sizes:  
10"-14" chuck with 19"-33" swing capability.

## **PRECISION SURFACE & CYLINDRICAL GRINDERS**

Okamoto High Precision Surface Grinder:  
16" X 24" table.

Okamoto High Precision Surface Grinder:  
16" X 32" table.

Okamoto OGM 8-22 Universal Precision OD Grinder:  
8" X 22" work area.

Landis Universal Precision ID & OD Grinder:  
14" X 40" work area.

Tool Makers Surface Grinders:  
8" X 16" & 7" X 15" tables.

Various Gorton, Harig, and Deckel Tool & Cutter Grinders

## **INSPECTION EQUIPMENT**

Brown & Sharpe Tesa 3D with TesaStar Probe Head  
460 X 510 X 420 mm Work Envelope

Numerex CMM with 24" X 24" X 18" Work Envelope.

Sherr-Tumico 30" Profile Projector.

Mitutoyo Surface Finish Profilometer

Mitutoyo Height Gages

Multiple Surface Plates, Bore Gages, Master Rings, Pressure Micrometers, Pin Gages, Thread Gages, Etc.

## **MISCELLANEOUS SUPPORT AND FINISH EQUIPMENT**

- Boice Crane Radial Drill
- Vertical and Horizontal Sawing Machines
- Sunnen Honing Machine
- Sand Blast/Vapor Honing Equipment
- Miller Welding Equipment
- 50 Ton Hydraulic Press
- Overhead Hoists and Cranes Up To 7 tons.
- Forklifts
- Parts Washer
- Burr Bench Metal Finisher (Tumble Finish/Deburr)