



FACILITIES LIST

Machines

1 Kitamura HX 300 iF Full 4 Axis Horizontal Machining Center

X axis **20.1"**

Y axis **20.1"**

Z axis **19.2"**

20,000 RPM spindle speed

80 station tool changer

2 station automatic pallet changer

Axis positioning **+/- .00008/full stroke**

Axis repeatability **+/- .00004**

1 DAEWOO Puma 240MB Lathe with Live Tooling

Swing over bed **21.7"**

Swing over carriage **15.4"**

Maximum turning diameter **11.4"**

Maximum turning length **20.1"**

Spindle speed-RPM **45 - 4,500**

Draw tube I.D. **2.59"**

Standard chuck size **8.0"**

Live tooling RPM's **50 – 5,000**

1 FANUC Robodrill CNC Vertical Machining Center

Longitudinal (X axis) **19.7"**
Cross (Y axis) **15.7"**
Vertical (Z axis) **13.0"**

14.75 HP spindle motor
NO 30 spindle taper
75-24,000 RPM spindle speed

Axis positioning **+/- .0002**
Axis repeatability **+/- .0002**

1 FANUC Robodrill CNC Vertical Machining Center with Full 4th Axis

Longitudinal (X axis) **19.7"**
Cross (Y axis) **15.7"**
Vertical (Z axis) **13.0"**

14.75 HP spindle motor
NO 30 spindle taper
75-24,000 RPM spindle speed

Axis positioning **+/- .0002**
Axis repeatability **+/- .0002**

1 FANUC Robodrill CNC Vertical Machining Center with Full 4th Axis

Longitudinal (X axis) **27.6"**
Cross (Y axis) **15.7"**
Vertical (Z axis) **13.0"**

14.75 HP spindle motor
NO 30 spindle taper
75-24,000 RPM spindle speed

Axis positioning **+/- .0002**
Axis repeatability **+/- .0002**

21 Tool station turret with .9 sec indexing

2 Doosan DNM 5700 Vertical Machining Center

Longitudinal (X axis) **41.3"**
Cross (Y axis) **22.4"**
Vertical (Z axis) **20.0"**

20 HP spindle motor
NO 40 spindle taper

12,000 RPM spindle speed

1 Doosan DNM 6700 Vertical Machining Center with Full Direct Drive 5 Axis

Longitudinal (X axis) **51.2"**
Cross (Y axis) **26.4"**
Vertical (Z axis) **24.6"**

20 HP spindle motor
NO 40 spindle taper
12,000 RPM

1 Doosan Lynx 2100A Turning Center

6" chuck
13" turn length
13.78" max turn diameter
2" bar capacity
23.6" swing over bed
20HP 6000 RPM

LaserStar Laser Engraver (for part marking)

Fibercube G3 Marking System – Cad2

Kenney Vacuum Pump with 60 gal. tank

This provides vacuum at all CNC workstations for the purpose of vacuum fixture work.

Harig 6-18 Surface Grinder

Ultramatic Vibratory Finisher 33" diameter

4 Virtual Gibbs Computer Aided Manufacturing (CAM) Systems

3-D CAM software
Solid surfacer

Import any DXF or IGS or STP files
Parasolids
ACIS(.SAT)
PRO-E

1 Bridgeport Mills

9" x 42" table
Digital readout
Collets
Tool holders

1 Romi Engine Lathe

13" swing
40" between centers
1 9/16 hole through spindle
Acu-Rite turn vision readout
Coolant system

Startrite Vertical Band Saw

36" throat to column
HYD table feed

Phoenix PA 10 Horizontal Band Saw

High speed heavy-duty production saw
10" diameter cutting capacity
8 x 12 flat cutting capacity
Coolant system

2 Drill Press

17" Craftsman ¾ HP

2 Belt Sanders

2 ½" belt width ½ HP

4" belt width ¾ HP

Milwaukee Carbide Tool Grinder

Miscellaneous Shop Equipment

4" Matched Kurt angle block vises for mills

6" Kurt vise with swivel base for mills

Koma 4th Axis

Nikken DD 5th Axis

Various size angle plates

2" Boring head

3" Boring head

4" Boring head

R-5 Tapmatic tapping head #6 + ½ Capacity

15HP Quincy air compressor 120 gal. tank

25HP DV Air Compressor SC 25

25 Ton HYD press

3 Ton arbor press

¾ HP Baldor dual wheel pedestal grinder

Minute man arbor broach up to 3/8 (35 sizes)

Etch-o-matic part marking for stainless parts

Hyster 40 Forklift

Quality Assurance Department Equipment

Brown & Sharp Global Model 09-12-08 CNC coordinate measuring machine with a Hexagon motorized indexing probe HH-A-S8T2.5 Scanning capability using **PC-Dimis** software.

X axis **35.43"**
Y axis **47.24"**
Z axis **31.5"**

Brown & Sharp Global Model S 9.15.8 Green, DC241, 2.5, X1H CNC coordinate measuring machine with a Hexagon motorized scanning head HH-AS8-T2.5. Scanning capability using PC-Dimis software.

X axis **35.43"**
Y axis **59.06"**
Z axis **31.5"**

Hexagon Metrology Tessa/Scope 355H Optical Comparator
With Comparator Software TS300/TS300E

18" Mitutoyo Electronic Height Gauge.

26" Starrett Vernier Height Gauge.

Spi CV-600A Rockwell Hardness Tester

Pitch Micrometer

0 -1" Mitutoyo OD micrometers thru 11" – 12" Mitutoyo OD micrometers.

0 – 9" Depth micrometer

81pc Mitutoyo sq. gage block set

81pc Starrett sq. gage block set

6.000" Starrett sq. gage block

10.000" Starrett sq. gage block

0-2" Starrett bench micrometer for calibration of threaded plug gages

3 wire thread measuring sets for calibration of threaded plug gages

12" x 18" Black granite surface plate Qty. (2)

24" x 36" Black granite surface plate Qty. (1)

6" x 9" x 12" 3step black granite angle plate

0 - 24" Starrett Vernier caliper

.011 thru .060 plug gage set. Qty (2)

.061 thru .250 plug gage set Qty. (2)

.251 thru .500 plug gage set Qty (2)

.500 thru .625 Meyer plug gage set Qty (1)

.626 thru .750 Meyer plug gage set Qty (1)