

## EQUIPMENT LIST

### 5-Axis Horizontal

Equipment	QTY	X	Y	Z
Haas EC - 1600	1	64"	50"	32"
Haas EC - 1600	1	64"	40"	32"
Okuma MA 600 Hii	1	39.37"	35.43"	39.37"
Makino A77	4	31.5"	29.5"	30.3"
Okuma Horiz 40-H	2	22.04"	22.04"	22.04"

### 4-Axis Horizontal

Equipment	QTY	X	Y	Z
Doosan HP5500 Horz	2	31.5"	24.8"	29.5"
Toyoda FA 550 Horizontal	1	29.52"	29.52"	23.62"
Mitsubishi M-H50C/D 50	4	28.4"	24.8"	24.8"
Mitsubishi M-H4B	2	25.6"	22.0"	25.6"
Haas HS-TRP HCM	1	24"	20"	22"
Makino A55	1	22"	22"	22"

### 3-Axis Horizontal

Equipment	QTY	X	Y	Z
Mitsubishi H50D	1	28.4"	24.8"	24.8"
Horizontal FA450	1	23.6"	23.6"	22"
Cell - Con	1	24"	17"	18"

### 5-Axis Vertical

Equipment	QTY	X	Y	Z
Mazak i-800V/8	1	69.93"	59.06"	45.28"
Mazak Integrex i-630V/6	2	56.1"	41.34"	41.34"
Mazak VARIAXIS 730	6	28.74"	33.46"	22.05"
Mazak VARIAXIS i-800T	1	28.74"	33.46"	22.06"

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## 4-Axis Vertical

Equipment	QTY	X	Y	Z
Agma VMC 158	2	59.06"	31.5"	27.56"
Toyoda FV 65 Vertical	1	50"	25.6"	24.0"
Daewoo DMV 4020	1	40.1"	20.1"	24.6"
Doosan DNM 500HS	3	40"	21.2"	20.1"

## 3-Axis Vertical

Equipment	QTY	X	Y	Z
Matsuura	1	40"	20"	20"
Okuma Howa 3VA	1	22.8"	14.1"	19.6"
Hwacheon Sirius-2 Mill	1	22.04"	16.14"	18.11"
Fadal VMC15	1	20"	16"	20"
Fanuc Robo Drill	1	15.7"	11.8"	13.0"
Brothers TC311	2	11.81"	8.66"	7.87"
Brothers 201	4	7.87"	5.91"	9.84"
Brothers 203	3	7.87"	5.91"	9.84"

## Lathes

Equipment	QTY	Turning Diameter	X	Y	Z
Mazak Integrex E-500H Multi-Tasking	1	32.28"	34.25"	19.69"	62.91"
Daewoo Puma Series 800L	1	35.4"	18.5"	NA	128.0"
Daewoo Puma Series 700	1	35.4"	18.5"	NA	65.0"
Okuma Multus U-3000	1	25.69"	25.39"	9.84"	62.99"
Okuma MacTurn 250	1	21.65"	18.70"	6.30"	40.35"
Doosan 2100 Lathe	1	18.9"	19.2"	NA	23.2"
Daewoo Puma Series 400 LC	1	22.4"	14.3"	NA	84.8"
Doosan TL2500LM	2	14.56"	9.84"	NA	41.33"
Hwacheon Lathe	2	13.38"	12.2"	NA	26.37"
Okuma ACT 4	3	13.77"	9.64"	NA	29.52"
Nakamura Tome	1	11.02"	9.25"	NA	11.81"
Okuma ACT 20	6	11.81"	7.08"	NA	18.11"
Okuma LCC 15 - 2 Turret	2	10.24"	6.89"	NA	12.6"

## CMMs

- 1 - Brown & Sharp Global Advantage
  - » 47.2" x 86.6" x 39.4"
  - » PC-DMIS CAD ++ Software
  - » Top acceleration up to 4.3m/s<sup>2</sup>
  - » Volume Metric Accuracy to 8 Microns
- 2 - Brown & Sharp Global Advantage
  - » 47.2" x 118.1" x 39.4"
  - » PC-DMIS CAD ++ Software
  - » Top acceleration up to 4.3m/s<sup>2</sup>
  - » Volume Metric Accuracy to 8 Microns
- 1 - Brown & Sharp Global S
  - » EPS (Enhanced Productivity Series)
  - » 47.2" x 118.1" x 39.4"
  - » PC-DMIS CAD ++ Software
  - » Top acceleration up to 4.3m/s<sup>2</sup>
  - » Volume Metric Accuracy to 8 Microns

## Heat Treating Equipment

- Ipsen T2 Horizontal Bath Carburize Furnace
  - » 250 lb. load capacity
  - » 12"H x 13"W x 22"D work zone
  - » Integral oil quench
- Lindberg Horizontal Batch Tempering Oven
  - » 1300 lb. load capacity
  - » 18"H x 24"W x 36"D work zone
  - » Nitrogen atmosphere capability
  - » Programmable control of heating cycle
- Automatic programmable control of all processing parameters, including atmosphere control.

## Grinders

- Centerless Grinding