



EQUIPMENT LIST

CNC Horizontal Machining Center

<u>Year</u>	<u>Types</u>	<u>Specifications</u>
2011	Mori Seiki NH4000 with 11 CPP Pallet System	22"x22"x24.8"
2011	Mori Seiki NH4000 with 11 CPP Pallet System	22"x22"x24.8"
2011	Mori Seiki NH6300 DCGII Machining Center Twin Pallet Size 19-3/4 x 19-3/4; 330 tools	41.3"x35.4"x38.6"
2011	330 Tools/24 Pallet Pool System, integrated between the Mori Seiki NH6300 DCGII and Mori Seiki NH6300/50 DCG	
2008	Mori Seiki NH6300/50 DCG Machining Center Twin Pallet Size 19-3/4 x 19-3/4; 180 tools	35.5"x31.5"x38.5"
2001	Hitachi Seiki HS630 50 Taper Twin Pallet Size 25.00 X 25.00; 60 tools	33.5"x31.5"x33.5"
2001	Hitachi Seiki HS630 50 Taper Twin Pallet Size 25.00 X 25.00; 60 tools	33.5"x31.5"x33.5"

5th Axis

2011	Mori Seiki NMV5000 with 8 RPP Pallet System 300 Tool Magazine	28.7"x20.1"x20.1"
------	------------------------------------------------------------------	-------------------

Multi-Axis Turning Center

2005	Mori Seiki ZT1500YB CNC Turning Center Magazine Loader Bar Feed	310 (12.2) Swing
------	--------------------------------------------------------------------	------------------

CNC Vertical Machine Center

2011	Mori Seiki DuraVertical 5100 with 4 th axis DDRT260	41.3"x20.9"x20.1"
2011	Mori Seiki DuraVertical 5100 with 4 th axis DDRT260	41.3"x20.9"x20.1"
2011	Mori Seiki DuraVertical 5100 with 4 th axis DDRT260	41.3"x20.9"x20.1"
2011	Mori Seiki DuraVertical 5100 with 4 th axis DDRT260	41.3"x20.9"x20.1"
2007	HAAS VF-3YT Super Speed, 40 Taper	40"x24"x25"
2006	HAAS VF-2YT Super Speed Mill	30"x20"x20"
2005	HAAS TM-2 Mill	40"x16"x16"
2001	CNC Hitachi Seiki VS-50 High Speed	40"x20"x20"
2001	CNC Hitachi Seiki VS-50 High Speed	40"x20"x20"
2001	CNC Haas, 4 th Axis, VF2	30"x16"x20"
2001	CNC Haas, 4 th Axis, VF2	30"x16"x20"
1999	CNC Hitachi Seiki VS-50 High Speed	40"x20"x20"
1996	CNC Fadal, 4 th Axis, VMC6030	60"x30"x26"



CNC Lathes

<u>Year</u>	<u>Types</u>	<u>Specifications</u>
2011	Mori Seiki NL2500	Ø14"x51.1"
2011	Mori Seiki NL2500	Ø14"x51.1"
2011	Mori Seiki NL2500	Ø14"x51.1"
2011	Mori Seiki NL2500	Ø14"x51.1"
2005	HAAS TL-2 Lathe	Ø19"x22"
1999	CNC Okuma Crown Big Bore	Ø10"x22"
1999	CNC Okuma Crown Big Bore	Ø10"x22"
1999	CNC Okuma Crown Big Bore	Ø10"x22"
1997	CNC Okuma Cadet	Ø10"x22"
1996	CNC Okuma Cadet Big Bore	Ø10"x22"
1996	CNC Okuma Cadet Big Bore	Ø10"x22"
1995	CNC Okuma Cadet	Ø10"x22"

3 Axis Mills

1999	Trak DPMSX3	28"x14"x 6"
1999	Trak DPMSX3	28"x14"x 6"
1999	Lagun ProtoTrak MX3 Control	28"x14"x 6"

2 Axis Mills

1995	Lagun ProtoTrak MX2 Control	28"x14"x 6"
1995	Lagun ProtoTrak MX2 Control	28"x14"x 6"
1992	Lagun Digital Power Feed Manual	28"x14"x 6"

Tool Presetter

2011	Parlec Shrinkset TMM Tool Presetter
------	-------------------------------------

Manual Lathes

1998	Acraturn	16"x40"
1991	AML-618	8"x24"
1990	Acraturn	16"x40"

Cutter Grinding Department

1998	Deckel S11
1994	Kaoming 40S

Sawing Department

1999	DAKE V-24 Bandsaw
1999	Hyd-Mach Model H14A 14" Capacity Prog.
1998	Amada H250W 10" Capacity Fully Auto.

Page 2 of 3



Quality Control

<u>Year</u>	<u>Types</u>	<u>Specifications</u>
2008	Brown & Sharpe GLOBAL Performance CMM	19"x27"x19"
2000	Mitutoyo Bright Strato 710 CNC CMM	36"x40"x24"
2001	Mitutoyo Bright Strato 710 CNC CMM	36"x40"x24"
2002	Mitutoyo PH-14LS Optical Comparator	14"

ERP Software

Exact JobBoss (Current year release)

Programming Software

SolidWorks (Current year release)

GibbsCam (Current year release), Virtual Mill/Virtual Lathe

Welding Department

1998 Miller Syncrowave 351 AC/DC Power Source

1998 Millermatic 185 Wire Welder

1998 Aircrafter Model 3 Turntable

Miscellaneous Machines

1985 Sunnen Power Precision Hone

Dimensional Layout Inspection Equipment List

Mitutoyo Dial Height Gage 24" (2)

Mitutoyo Surfetest Profilometer

Mitutoyo 12" Height Master

Sunner Precision Bore Gage .375-2.500 Dia.

Rockwell Hardness Tester

Outside Micrometers to 12"

Vernier Calipers to 60"

Depth Micrometers 0-6"

Miscellaneous Inch and Metric thread ring and plug gages

Pitch Micrometers

Thread Measurement Wires

5" Sine Plate

Miscellaneous Angle Plates, V blocks, Etc.