



150 Church Hill Road
Augusta, Maine 04330
207-626-0188 P | F 207-626-0198

AS 9100
ISO 9001
ITAR Registered

Equipment

November 2011

CNC MILLING MACHINES — VERTICAL

2 Matsuura ES1000V

8" full 4th axis rotary table
Part probing (Renishaw)
40" x 22" x 20" travel
12,000 rpm spindle
High-pressure through-spindle coolant

2 Matsuura MC510VG

8" full 4th axis rotary table
Part probing (Renishaw)
20" x 14" x 16" travel

2 Fanuc Robodrill T21 Fa

8" full 4th axis rotary table
20" x 16" x 13" travel
10,000 rpm spindle
High-pressure through-spindle coolant

1 Fanuc Robodrill T21 Fs

12" x 12" x 13" travel
10,000 rpm spindle
High-pressure through-spindle coolant

1 Fanuc Robodrill T21Fi

8" full 4th axis rotary table
28" x 16" x 13" travel
10,000 rpm spindle
High-pressure through-spindle coolant

1 Fanuc 200 iBC Robot

In-feed / Out-feed conveyors
Part probing

1 Mori-Seiki MV65

12" programmable indexer
50" x 25" x 25" travel

CNC MILLING MACHINES — HORIZONTAL

1 Kiwa KNH 426

12,000 rpm spindle
Six-pallet changer
Part probing

1 Kiwa KNH 400

8,000 rpm spindle
Six-pallet changer

1 Kiwa KNH 400

12,000 rpm spindle
Twin-pallet changer
Part probing

1 Kiwa KH 41

12,000 rpm spindle
Twin-pallet changer

Cont'd.

CNC TURNING CENTERS

3 Nakamura-Tome NTY3

Twin spindle (6,000 rpm)
Three turret (36 live tools; 6,000 rpm)
12 axis
6.5" diameter x 23" length capacity

1 Nakamura-Tome WT100

Twin spindle (6,000 rpm)
Twin turret (24 live tools; 6,000 rpm)
8 axis
6.5" diameter x 19" length capacity

1 Nakamura-Tome SC 150 M

Single spindle (6,000 rpm)
Single turret (12 live tools; 6,000 rpm)
3 axis
6.5" diameter x 10" length capacity

1 Okuma Cadet

8" x 24"

2 Okuma Cadet L-1420

12" x 60"
Programmable steady rest

3 Okuma Crown L-1060

8" x 24"

3 Nakamura Tome TMC 15

6" x 15"

2 Cubic GT Mini Plus

5" x 6" CNC gang turning center

GRINDERS

1 Kellenberger Kel-Vista UR175/1000 Universal CNC grinding machine

12" x 40"
220 pounds maximum between centers

2 Harig hydraulic surface grinders

6" x 18" travel

1 Sunnen Model MBC 1804 automatic production honing machines

ELECTRIC DISCHARGE MACHINES (EDM)

3 Methods HM400 CNC Holemasters

16" x 15" x 15" travel
6" programmable rotary table

MANUAL EQUIPMENT

3 Model 2J Bridgeports w/digital readout

1 Clausing, 17" x 48" Engine lathe

1 Cadillac, 14" x 28" Engine lathe

COMPUTER AND CAD CAM CAPABILITIES

Mastercam version X5 MR2 SP2

**Mill Level 3, Lathe, Solids, Design,
Multi Ax 3D, contouring CAD CAM
software**

**Receive and translate ASCII, IGES, STEP,
DXF, PARASLD, STL, SLDPRT, SAT,
ACAD, files**

Esprit 2011 CAD/CAM

PRECISION INSPECTION

QC lab

Temperature controlled

Calibration system

Compliant to ANSI Z 540-1 Part 2

Coordinate Measuring Machines (CMMs)

1 Wenzel LH 8/10/7 DCC

OpenDMIS software
31.5" x 40.0" x 27.5" measuring volume
Articulating Probe Head

1 Wenzel XO10/20/7 DCC

OpenDMIS software
39.4" x 78.8" x 27.5" measuring volume
Articulating probe head

2 Zeiss Duramax (CMMs)

20" x 20" x 20" measuring range
Vast XXT scanning probe
Calypso software

Other Precision Equipment

3 Digital Electronic height gauges

3 Hawkeye® Borescopes

with video and digital imaging system

2 Federal Air Gauge System

with micro-inch increments

4 Surface Profilometers

4 Mantis Vision Scopes

4x–10x

6 Stereo Scopes

10x–30x

3 Starrett® HB400 Optical Comparators

16" screen

1 Zeiss Surfcom 2000SD

Surface roughness and contour
Motorized probe
4" stroke

OTHER EQUIPMENT

Parts Cleaning

1 JRI FL500 Parts Washer

2 Branson Ultrasonic Cleaners

Surface Finishing

1 UltraMatic Portaburr 3

1 Bel Air Vibratory Tumbler

1 Sand Blaster

4' x 3'

Heat-Treating Ovens and Furnaces

1 Blue M electric

8" x 10" x 20"

1 Moffett Turbofan 27

11" x 27" x 20"