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AS 9100
ISO 9001
ITAR Registered

Equipment

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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

1 Mori-Seiki MV65

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

2 Fanuc Robodrill T22 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 Tree Journeyman

30" x 19" 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

1 Nakamura-Tome WTW 150

Twin spindle (5,000 rpm; 6,000 rpm)
4 turret (48 live tools; 5,000 rpm)
13 axis
6.5" dia. x 10" length capacity

2 Nakamura-Tome NTY3

Twin spindle (6,000 rpm)
Three turret (36 live tools; 6,000 rpm)
12 axis
6.5" dia. 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" dia. 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" dia. 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"

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

4 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 Zeiss Eclipse DCC

UMESS software

20" x 21.5" x 23" measuring volume

Piezo trigger probe head

1 Wenzel LH 8/10/7 DCC

OpenDMIS software

31.5" x 40.0" x 27.5" measuring volume

Articulating Probe Head

1 Wenzel XO1027

OpenDMIS software

39.4" x 78.8" x 27.5" measuring volume

Piezo trigger probe head

1 Mitutoyo B231

Geomeasure software

28" x 24" x 18" measuring volume

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

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"