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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 Matsuura MC510VF

8" full 4th axis rotary table
20" x 14" x 16" travel

1 Matsuura 510 Tiger

8" full 4th axis rotary table
20" x 14" x 16" travel

1 Mori-Seiki MV65

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

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

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 10.0" 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 23.0" 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 19.0" 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 10.0" 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 X3 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

PRECISION INSPECTION

Temperature-controlled QC lab

Calibration system compliant to ANSI Z 540-1 Part 2

Coordinate Measuring Machines (CMMs)

1 Zeiss Eclipse DCC

UMESS software
20.0" by 21.5" by 23" measuring volume
Piezo Trigger Head Probe

1 Wenzel LH 8/10/7 DCC

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

1 Mitutoyo B 231

Geomeasure software
28" by 24" by 18" measuring volume

1 Helmel MicroStar

Geomet 300 software
30" by 40.0" by 18" measuring volume

Other Precision Equipment

3 Digital Electronic height gauges

3 Hawkeyes Bore Scopes, 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's Optical Comparator, 16" screen

OTHER EQUIPMENT

Parts Cleaning

1 JRI FL500 Parts Washer
2 Branson Ultra Sonic 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"