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AS 9100D
ISO 9001:2015
ITAR Registered

Equipment

September 2024

CNC Milling Machines — Vertical

2 Fanuc Robodrill T21ia

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

1 Fanuc Robodrill D21LiB

28" x 16" x 13" travel
10,000 rpm spindle
High-pressure through-spindle coolant

1 Fanuc Robodrill T21iFa

20" x 16" x 13" travel
24,000 rpm spindle
High-pressure through-spindle coolant
Fanuc 200IC Robot with In/Out Feed

1 Methods MB 450U 5th Axis Mill

16" x 14" x 14" Travel
15,000 rpm spindle (10hp)
High-pressure through spindle coolant
Part probing

2 Fanuc Robodrill T21iFLa

8" full 4th axis rotary table
28" x 16" x 13" travel
10,000 rpm spindle
High-pressure through-spindle coolant
Fanuc 200IC Robot with In/Out Feed

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

CNC Milling Machines — Horizontal

1 DMG MORI NHX 4000 2nd Generation

15,000 rpm spindle
Twin pallet changer
Part and tool probing
DDM full 4th axis
High pressure through spindle coolant

1 Kiwa KH 41

12,000 rpm spindle

1 Kiwa KNH 400

12,000 rpm spindle
Twin-pallet changer
Part probing

1 Kiwa KNH 426

12,000 rpm spindle
Six-pallet changer
Part probing

CNC Turning Centers

1 Nakamura-Tome NTY3-250

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

5 Nakamura-Tome NTY3

Twin spindle (6,000 rpm)
Three turrets (36 live tools; 6,000 rpm) 13 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 NTRX-300

Twin Spindle - 3500 rpm – 30hp
25hp – 12,000 rpm Tool Spindle
26in swing (13" Standard Turning dia)
53" between spindles
80 tool ATC

1 Nakamura-Toe SC150 M

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

3 Nakamura Tome TMC 15

6" x 15"

1 Okuma Cadet LNC-8

8" x 24"

Electric Discharge Machines (EDM)

3 Accutex HP-350 CNC (hole popper)

12" x 14" table travel
6" programmable indexer

3 Okuma Crown L-1060

8" x 24"

2 Okuma Crown LB3000EX-II

8" x 24"

2 Cubic GT Mini Plus

5" x 6" CNC gang turning center

1 DMG Mori NLX 2500Y-1250

Single spindle (4,000 rpm)
Live turret (12 tools; 10,000 rpm)
4 axis
12" diameter x 48" length capacity
Programmable steady rest

Ganesh Gen Turn52-BY2

9 axis mill / turn lathe with 12-angle tools
52mm / 2" diameter bar capacity
Twin 15hp, 6,000 rpm opposed spindles
36 tool positions, 18 live tools

Tsugami B0325-II

Enhanced 5-axis Swiss-style lathe
32mm / 1.26" diameter bar capacity
8' bar feeder
8,000 rpm main and sub-spindles
6,000 rpm live tools
26 tool positions, 8 live tools

Manual Equipment

3 Model 2J Bridgeport w/digital readout 1

Clousing, 17" x 48" Engine lathe

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 machine



Precision Inspection

QC lab

Climate controlled

Calibration system

Compliant to ANSI Z 540-1 Part 2

Keyence IM-7010 Image Dimension Measuring System

7.87" x 7.87" wide field measurement area

4.92" x 4.92" high-precision measurement area

Coordinate Measuring Machines (CMMs)

2 Zeiss Contura G2 1000/1600/600

40" x 63" x 24" measuring range

Calypso software

Freeform software

Vast XXT scanning probe

RDS articulating probe holder

3 Zeiss Duramax

20" x 20" x 20" measuring range

Vast XXT scanning probe

Calypso software

QC-Calc SPC

Other Precision Equipment

3 Digital Electronic height gauges

3 Hawkeye® Borescopes

with video and digital imaging system

Fowler – Scan F60T Lazer Scan

60mm x 300mm

Information Technology

Mastercam Mill 3D/Lathe/Multi-Axis

Predator DNC/CNC/Editor

SolidWorks 3D CAD

Discuss OCR/Planner/Results

GAGEtrak Calibration Management

1 Factory In-Process Inspection

Other Precision Equipment continued

2 Federal Air Gauge System

with micro-inch increments

2 Federal Electronic Amplifier Gauges

4 Surface Profilometers

4 Mantis Vision Scopes —4x–10x

6 Stereo Scopes — 10x–30x

3 Starrett® HB400 Optical Comparators

16" screen

2 Zeiss Surfcom 2000SD

Surface roughness and contour

Motorized probe

4" stroke

1 Zeiss Rondcom 41C

Form tester

300mm height

1 Mitutoyo HR-430MR Hardness Tester

Other Equipment

Parts Cleaning

1 JRI FL500 Parts Washer

2 Branson Ultrasonic Cleaners

4 Hornady Magnum Sonic Cleaners

Surface Finishing

1 UltraMatic Portaburr 3

1 Hammond Roto-Finish ST-1 CLT

1 Bel Air Vibratory Tumbler

1 SandBlaster

4' x 3'

Heat-Treating Ovens and Furnaces

1 Paragon Model HT14

14" x 14" x 14"

Laser Marking Machine

1 Tykma ZXE 20

