

Equipment List

CNC MILL/TURN

Swiss Style

- 1 Tsugami BS32-II (7) axis Super Lathe
- 3 Tsugami BS20C-III (7) axis Super Lathe
- 2 Tsugami BH20C-III (10) axis Super Lathe
- 2 Tsugami S206 (7) axis Super Lathe

Conventional Fixed

- 3 Mazak Integrex I150 Multi Tasking Center 5,000 RPM lathe spindle, 12,000 RPM milling spindle and 72 tool magazine
- 2 Nakamura WT-100 twin 6,000 RPM turrets and 24 tools each two opposed spindles and a Fanuc 31i controller
- 1 Nakamura WY-100 Y axis on 5,000 RPM sub-turret, 2" bar capacity and a Fanuc 31i controller
- 1 Mori Seiki MT-1500SZ Multi-Function Turning Center sub-spindle and 40 tool milling head
- 9 Hardinge Conquest GT milling capabilities and C axis
- 5 Hardinge GT milling capabilities and B axis
- 1 Hardinge T51 Super Precision Lathe milling capabilities, live tooling and sub-spindle
- 3 Hardinge T42SP Super Precision Lathe live tooling and sub-spindle
- 1 Mazak SQT-15M Mark II Milling/Turning Center
- 4 Mazak SQT-15MY Milling/Turning Center
- 1 Mazak SQT-15MY-S Milling/Turning Center with sub-spindle.
- 5 Prodigy/CMS C axis capability

CNC MULTI-AXIS MILLING

Five Axis

- 1 Matsuura MAM72-35V Horizontal Milling Center 20,000 RPM Maxia spindle, 32 pallet automatic loading system, 320 tool magazine
- 2 Makino A55 Horizontal Milling Center 20,000 RPM spindle, rigid tap, & through the spindle coolant system. 128 tool magazine
- 1 Makino FNC 60 Vertical Milling Center
- 2 HAAS VF4 Vertical Milling Center

Four Axis

- 2 Makino A55 Horizontal Milling Center 20,000 RPM spindle, rigid tap, & through the spindle coolant system. 128 tool magazine
- 3 Mori Seiki SV-503/40 Vertical Milling Center
- 2 HAAS VF3 Vertical Milling Center
- 1 HAAS VF4 Vertical Milling Center
- 1 HAAS Mini Mill Vertical Milling Center

CNC LATHE TURNING

- 4 Hardinge CHNC

ELECTRICAL DISCHARGE MACHINING (EDM)

- 1 Sodick Model SLN400G submerged with rotary table
- 1 Sodick Model AG600L submerged with rotary table
- 3 Fanuc Model Alpha OCS/AWF submerged
- 1 Fanuc Model Alpha OCS/AWF submerged with rotary table

LASER MARKING

- 1 FOBA M3000-P Laser Work Station 5-axes, with vision system
- 2 Trumpf Diode Pump

INSPECTION

- 1 Leitz PMM-C 700 12-10-7 Laboratory Grade Scanning CMM
- 1 Zeiss CONTURA G2 AKTIV CMM deep feature measurement with active sensor
- 1 Brown & Sharpe Global Advantage Silver Edition CMM 700x1000x700mm frame
- 1 Brown & Sharpe EXCEL CMM 7-10-7, PH10, TP200
- 1 Motoman HP20 Robot with 6 axes and 44 lb payload
- 1 SmartScope Quest 450 Vision Measuring System with a QVI interferometric TTL laser and feather probe
- 1 OGP Avat 400 Zip Vision Measuring Machine 18" x 18"
- 1 Keyence IM-6225T Dimensional Measurement System
- 1 S-T 24" CNC Optical Comparator with QC5000
- 1 Starret HB400 Optical Comparator
- 1 OGP Optical Comparator
- 1 X-Met 5000 Alloy Analyzer
- 1 View Toolmaker's Microscope 6" x 6" with computer
- 1 Zeiss Surfcom 130A Profilometer
- 1 Mitutoyo SJ400 Profilometer

INFORMATION SYSTEMS/SOFTWARE

M1 ERP	SmartProfile
GibbsCAM	pc'dmis
SolidWorks	SURFCAM
AutoCAD	KeyCreator
MeasureMind 3D	Gage Tracking
Calypso	Minitab
JMP	QC-Calc
InspectionXpert	
Distributed Numerical Control (DNC) Program Transfer	

ASSEMBLY

Class 100 (ISO Class 5) 500 SF clean room
Class 10,000 (ISO Class 7) 1,300 SF assembly area

MISCELLANEOUS

- 1 Ewag WS11-SP Custom Tool Grinder
- 1 Motoman HP20D-6 Robot 6 axes and accuracy to +/- 0.06 mm
- 1 Universal Robotics UR10 Robot 51" radius and 22 lbs payload
- 1 Dimension BST 1200es 3D Printer with 10" x 10" x 12" build size
- 1 Gardner Denver VS70 Air Compressor with at-ready backup
- 6 Vibratory Tumblers
- 2 Empire Abrasive Pressure Blast System
- 3 Sunnen Honing System
- 1 Comco Micro Blasters
- 1 Mass Finishing Centrifugal Barrel Finisher 3 station capacity
- 1 Bel Air Centrifugal Disc Finisher
- 1 DoAll Vertical Horizontal Manual Band Saw
- 1 Amada Horizontal Automatic Band Saw
- 1 Enerpac 25 Ton H Frame Press
- 2 Gruenberg Heat Treating Ovens
- 1 Hardinge Model HLVH Tool Room Lathe
- 1 Bridgeport CNC Series 12J42 Vertical Milling Center with partner control.
- 1 Conemaster CM-3 Bar Chamfering Machine



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