

# FACILITIES LIST

## ELECTRICAL DISCHARGE MACHINING (EDM)

- WIRE EDM**
- (4) Mitsubishi MV4800-R 5-Axis Wire EDM; 31.50" x 23.60" x 20.10" machining range, extended tilt to 45 degrees, automatic wire threading, submerged arc, anti-electrolysis power supply
  - (2) Mitsubishi FA20 5-Axis Wire EDM; 19.69" x 13.77" x 18.00" machining range, extended tilt to 45 degrees, automatic wire threading, submerged arc, anti-electrolysis power supply
  - (2) Mitsubishi MV/BA24 5-axis Wire EDM; 23.6" x 15.7" x 12.2&16.7" machining range, automatic wire threader, submerged arc, anti-electrolysis power supply
  - (10) Mitsubishi MV2400/FA20 5-axis Wire EDM; 19.69" x 13.77" x 11.85" machining range, automatic wire threading, submerged arc, anti-electrolysis power supply
  - (16) Mitsubishi MV1200/FA10 5-axis Wire EDM; 13.77" x 9.80" x 8.66" machining range, automatic wire threading, submerged arc, anti-electrolysis power supply
- SINKER EDM**
- (7) Mitsubishi EA8 & SV12P CNC sinker EDM with 3R tooling systems
- SMALL HOLE EDM**
- (4) Mitsubishi/Novotec 4700 SD-1014 CNC hole popper

## MACHINING AND FINISHING

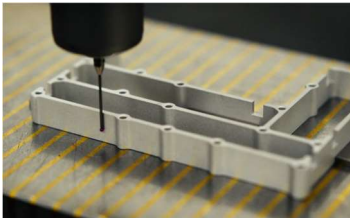
- CNC MILLING**
- (1) Kitamura Supercell 400G 5-axis Horizontal Machining Center; 20.1" x 20.1" x 20.1" machining range, 20-station automatic pallet changer, 190 position tool changer; Accuracy:  $\pm 0.000039$ "
  - (11) HAAS VF-2 / SS Vertical Machining Center; 30" x 16" x 20" machining range, 20/24 position tool changer, Renishaw infrared probe
  - (1) HAAS VF-5 Vertical Machining Center; 50" x 26" x 25", 30 position tool changer, Renishaw probe
  - (1) HAAS VF-3 Vertical Machining Center; 40" x 20" x 25" machining range, 20/24 position tool changer, pallet system, Renishaw probe
  - (4) HAAS DM2, DM1 & M.M. Vertical Machining Center; 28" x 16" x 15.5", and 16" x 12" x 10" machining range, 18 position tool changer, Renishaw probe
- MANUAL MILLING**
- (2) Bridgeport vertical mill with DRO and power feed



- GRINDING**
  - (2) CNC OKAMOTO 12" x 24" automatic surface grinder with fully programmable dressing, roughing, finishing and spark out cycles
  - (5) South Bend 6-18 precision surface grinder with central dust collection systems
- TURNING**
  - (2) HAAS SL-30 / ST-30 CNC Turning Center
  - (1) HAAS ST-15 CNC Turning Center
  - (1) HAAS SL-10 CNC Turning Center
  - (1) HAAS ST-30Y CNC Turning Center with live tools
- DRILLING**
  - (8) Drill presses with adjustable spindle, table; multi-spindle
- SAWS**
  - (2) DoAll Vertical and CNC Horizontal band saws
- FINISHING**
  - Timesavers automatic finisher, belt and disc sanders, honing machine, Gesswein Ultrasonic polishing equipment
- POWER PRESSES**
  - (1) AMADA SPH30 hydraulic CNC two-axis programmable brake and triple track turret, bench top power presses up to five tons, and prototype presses
- LASER ENGRAVING**
  - (1) TYKMA Zetalase Fiber Laser Marking System with 18" x 24" x 8.75" work area

## LASER AND ENGINEERING

- INSPECTION**
  - (3) Zeiss CMM 1000mm Contura with RDS, Vast XT and Calypso software
  - (3) Brown & Sharpe Reverse Engineering-Digitizing CMM with CMM Manager software
  - (3) OGP Flash 3D Multi-sensor vision system
  - (1) Nikon Optical Multi-sensor Vision Inspection System
  - (1) 75 power Sony Color Vision System
  - (1) Keyence XM CMM
  - (\*) Optical comparators, digital camera bore scope, Mitutoyo & Tesa-hite digital height gages, gage blocks, plug gages, digital calipers/micrometers, hardness tester, digital profilometer, Niton XRF Analyzer
- ENGINEERING**
  - CAD/3-D modeling software; advanced EDM programming software
  - CNC programming software for five-axis machine tools
  - NJPT accepts all CAD and 3-D model file formats



## CERTIFICATIONS



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