

# FTT MANUFACTURING FACILITIES LIST

## CNC Milling

- 2 ENSHU JE60S CNC Horizontal Machining Centers 16" pallets, 30 HP  
13000 RPM, 1000psi through spindle coolant
- 3 Mitsubishi M-H4, CNC Horizontal Machining Centers, 16" Pallets
- 1 HAAS EC300 CNC Horizontal Machining Center with 12" pallets
- 1 Matsura RAIIF, CNC Vertical Mill with Dual pallets 15"x31"
- 1 Okuma Crown V-4018 CNC Vertical Machining Center
- 1 HAAS VF3SS Vertical Machining Center, 12,000 RPM, Renishaw  
Probe, Full 4<sup>th</sup> Axis
- 1 HAAS VF4SS Vertical Machining Center, 12,000 RPM, Renishaw  
Probe, Full 5<sup>th</sup> Axis
- 1 HAAS VF2SS Vertical Machining Center, 12,000 RPM, Renishaw  
Probe, Full 4<sup>th</sup> Axis
- 1 HAAS DT1 Vertical Machining Center, 12,000 RPM, Renishaw Probe,  
Full 5<sup>th</sup> Axis
- 2 Fadal VMC 4020 HT, CNC Vertical Machining Center, Full 4<sup>th</sup> Axis
- 1 Fadal VMC 3016, CNC Vertical Machining Center, Full 4<sup>th</sup> Axis
- 1 Fadal VMC 15, CNC Vertical Machining Center

## CNC Multi Function Mill/Turn

- 1 Mori Seiki NT 1000 SZM Multi Axis Milling Head, Lower Turret  
with Live Tooling, Dual Spindle, Barfeeder
- 1 Hardinge Conquest T65 CNC Lathe,, 10" Chuck, Live Tooling

## CNC Turning

- 1 Hwacheon Hi Tech 300 CNC Lathe, 30 HP, 14" Chuck
- 2 Hwacheon Hi Tech 200A CNC Lathe, 15 HP, 8" Chuck
- 1 Hardinge Conquest T42 CNC Lathe w/Sub-spindle, 16-T Collets,  
Barfeeder
- 1 Okuma LB15, CNC Lathe, 8" Chuck, 5C collets

## CNC Swiss Turning

- 2 Citizen L-20 Swiss Type Lathe, Barloaders, 7-Axis
- 1 Maier MLK32 Hybrid Swiss Type Lathe, Barloader, 9-Axis
- 1 Maier ML32 F1 Swiss Type Lathe, Barloader, 11-Axis

## Grinding

- 1 Okumoto 122 Surface Grinder 12 x 24 Fully Automatic
- 1 Chevelier Surface 612; 6X12 Chuck, .000050 DRO & Feeds
- 1 Reid Surface Grinder 6" X 10

## Wire EDM

- 1 Mitsubishi FX-1 Wire EDM, 5 Axis

## Welding and Laser Welding

- 1 Miller Tig/stick welder
- 1 ALS 30 S Micro-Laser Welding Console

## Tool Room

- 6 Bridgeport Prototrack Vertical Mill, 9 X 42 Power feed, .0002" DRO
- 1 Bridgeport Series 1 MDI, CNC Vertical Mill
- 1 Haas TL-1 CNC Controlled Tool Room Lathe
- 1 Victor 1640 Engine Lathe, 14" Swing, 10" Chuck, 5-C Collets
- 1 Hardinge Super Chucker w/Auto Threading
- 1 Hardinge HLV Toolroom Lathe, 6" Chuck, 5-C Collets
- 1 Hardinge Second Op Lathe

## Rapid Prototype

- 1 3-D Systems Cubex Duo 3-D ABS plastics printer

## Metrology

- 1 Brown & Sharpe Micro-Hite DCC CMM
- 2 Starrett Rapid Check CMM
- 1 OGP Flash 200 Optical based CMM
- 2 Grade A Granite Surface Plates (18x24) (24x36)
- 6 Cadillac Gauges
- 1 Mitutoyo Digital Height Gauge
- 1 Starett/Brown & Sharpe Transfer Stands
- 1 Sheffield Shadow Gage .000025 Resolution
- > Full compliment of bore Gauges, micrometers, thread and plug  
gauges

## Finishing

- 1 DeVilBliss Paint Spray Booth & Accessories
- 1 Comco Micro-Abrasive Blaster
- 4 Vibratory De-Burring Machines
- 1 Spinner Magnetic Rotary Micro-Deburring Machine
- 2 Small and Large Capacity Rotary Sand Blasters
- > Onsite Cleaning and Passivation Line  
Additional Finishing Available Through Sub-Contract

## Marking and Engraving

- 1 Rofin F-20 Fiber Laser Marking/Engraving System
- 1 Vision 1624R CNC Router/Engraver
- 1 Dot Peen Engraving System

## Information Technology

- > Microsoft Based Computer Network System, ERP Job System
- > Part Maker, Master Cam, and Solid Works