FZE researches and invests in the latest technology and features for equipment purchases. With the rapid advancement in machine technology the company buys equipment that will be technologically appropriate for several years. In addition, availability of service personnel and replacement parts is considered prior to purchase. FZE avoids purchasing equipment from manufacturers or dealers who may not have the parts or personnel to service the machines when necessary. Machine up-time, compatibility with current equipment and match to job requirements are driving factors. FZE will occasionally procure newer used equipment and has had good success after a thorough review of the equipment, its features and the maintenance records.

Following is a summary listing of key equipment located within our 60,000 sq ft modern facility:

### Vertical Machining Centers
- **OKK 820V**
  - 32” x 76” Table, 35 HP, CAT50
  - 18” Rotary 4th Axis
- **Daewoo DVC500**
  - Twin Pallet - High Speed Index Table
  - 20 HP, Two 22” x 34” Pallet Tables
- **(6) Haas VF3**
  - 18” x 48” Table, 15 HP, w/Probes
  - 12” Rotary 4th Axis
- **(2) Haas MDC-500**
  - Twin High Speed 18” x 13” Pallets
  - 10 HP, 15,000RPM, 4th axis, thru cool
- **Haas VM3**
  - 40” X 26” X 25”, 30 HP, 12,000 RPM
  - w/Probe, 12” Rotary 4th Axis
- **Haas VF4SS**
  - 50” X 20” X 25”, 30 HP, 15,000 RPM
  - w/Probe, 12” Rotary 4th Axis
- **Haas VF5/40**
  - 50” X 26” X 25”, 30 HP, w/Probe
  - 12” Trunnion 5 Axis Rotary

### Bar Feed Lathes & Swiss T/C
- **Daewoo Puma 300 MSB**
  - 3” Bar Capacity
  - Sub-spindle w/Live Tooling
  - 4’ Magazine Bar Feeder
- **Daewoo Puma 230 MSB**
  - 1 1/16” Bar Capacity
  - Sub-spindle w/Live Tooling
  - 12’ Bar Feeder
- **(2) Doosan Puma2600SY**
  - Sub-spindle w/Live Tooling
  - Multi-Axis, 2.65” Dia x 12’ bar feeder
  - and Doosan Cobot
- **(2) Doosan TT1800SY**
  - Twin-spindle, Twin 24 Tool Turrets
  - Multi-Axis, 2.65” Dia x 12’ bar feeder
  - and Doosan Gantry Robot + Cobot

### CNC Lathes
- **Doosan Puma400**
  - 18” Chuck, 2 Axis, 40” CC
- **Daewoo Puma 12S**
  - 12” Chuck, 2 Axis, 30” CC
- **Daewoo Lynx 200**
  - 8” Chuck, 2 Axis, 20” CC
- **(3) Haas SL30 & SL20**
  - 12” Chuck, 2 Axis, 30” CC
- **Hwacheon HI-EC031**
  - 10” Chuck, 4 Axis, 24” CC
  - Live Mill/Drill Tooling

### Horizontal Machining Centers
- **OKK HM600**
  - 32” x 30” x 30” Dual Pallet
  - 12,000 rpm spindle
  - 40 HP - 50 taper, 60 ATC
- **OKK HM80**
  - 40” x 34” x 34” Dual Pallet
  - 12,000 rpm spindle
  - 40 HP - 50 Taper, 60 ATC
- **DOOSAN NHP5000**
  - 29” x 29” x 34” Dual Pallet
  - 15,000 rpm spindle, Hi-Press Coolant
  - 50 HP - 40 Taper, 60 ATC

### SST Finishing Lines
- **SST Electro-Polishing**
- **SST Passivation**

### Inspection Equipment
- **(2) Sheffield Discovery CMM’s**
  - D-28 & D12
- **Keyence IM7030T**
  - Instant Measuring Vision System
- **- 14” J & L Optical Comparator**
- **- Granite Tables W/Ht. Gages**
- **- Many, Many Hand Gages, Mics, etc.**

### Miscellaneous
- **(2) CNC 12” Autosaws**
- **- Cylindrical Grinder 12” Dia x 40”CC**
  - (1) Vertical Broach
  - (3) Horizontal Broaches
- **- Welding & Fabricating**
- **- Abrasive Polishing Equipment**
- **- Central Tooling Set-up Area**
- **- Assembly / Sub-Assembly Area**
  - Finished Goods Inventory for Blanket Orders and Kanban systems.