

Equipment & Automation

FZE researches and invests 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, capability with current equipment and match to job requirements are driving factors. The company will occasionally procure newer used equipment and has had some good success after a thorough review of the equipment and 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
4-Axis Controls, 35 HP
50 Taper – 18" Rotary 4th axis

-Daewoo DMV500

20" x 40" Table
20 HP, 8,000 RPM Spindle

-Daewoo DVC500

Twin Pallet - High Speed Index Table
20 HP, Two 22" x 34" Pallet Tables

-(6) Haas VF3

4th Axis Controls with Probes
12" Rotary 4th axis
15 HP, 18" x 48" Table

-(2) Haas MDC-500

Twin Pallet – High Speed Index Table
10 HP, Two 18" x 13" Tables

-Haas VM-3

4th Axis w/Probe
12" Rotary 4th Axis
15 HP 40 X 26 X 25



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 11/16" Bar Capacity
Sub-spindle w/Live Tooling
12' Magazine Bar Feeder

NEW

Doosan Puma2600YB

Sub-spindle w/Live Tooling
Multi-Axis, 2.65" Dia x 12' bar feeder

Doosan TT1800SY

Twin-spindle, Twin 24 Tool Turrets
Multi-Axis, 2.65" Dia x 12' bar feeder



-Hanwha XD32/38II

1.50" Dia Bar Capacity
8 Axis Swiss Turning Center
Sub-spindle w/Live Tooling
9" Sliding Head Stock Stroke
12' Magazine Bar Feeder

NEW

-Hanwha XD26II-V(B)

1.05" Dia Bar Capacity
9 Axis Swiss Turning Center
Sub-spindle w/Live Tooling
8" Sliding Head Stock Stroke
12' Magazine Bar Feeder

-Hanwa ML32HP

1.25" Dia Bar Capacity

-(2) Hanwa ML26HP

1.00" Dia Bar Capacity

-Hanwa ML20HP

.75" Dia Bar Capacity
All are equipt with:
6 Axis Swiss Turning Center
Sub-spindle w/Live Tooling
8.265" Sliding Head Stock Stroke
12' Magazine Bar Feeder

Nomura NN32YB

32 mm Swiss Lathe
16 tool capacity
12' bar feeder



Nakamura WT-150

Twin-spindle, Twin 24 Tool Turret
Multi-Axis, 2" Dia x 4' bar feeder

CNC Lathes

NEW

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 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

NEW

-DOOSAN NHP5000

29" x 29" x 34" Dual Pallet
15,000 rpm spindle
50 HP – 40 Taper, 60 ATC



Beamer Fiber Marking Laser



NEW

SST Finishing Lines

SST Electro-Polishing
SST Passivation

Inspection Equipment

-Quality Laboratory

-(2) Sheffield Discovery CMM's
D-28 & D12

NEW

Keyence IM7030T

Instant Measuring Vision System

- 14" J&L Optical Comparator

- Granite Tables W/Ht. Gages

- Many, Many Hand Gages, Mics, etc.



Miscellaneous

Cylindrical Grinder 12" Dia x 40" CC

(1) Vertical Broach

(3) Horizontal Broaches

Welding & Fabricating

Electric Stress Relieving Oven

Knee Mills, Drill Presses

Abrasive Polishing Equipment

Central Tooling Set-up Area

Assembly / Sub-Assembly Area

Finished Goods Inventory for Blanket
Orders and/or Kanban systems.